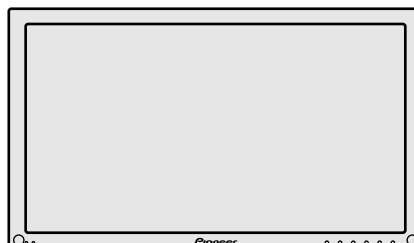


Service Manual



ORDER NO.
ARP3107

PLASMA DISPLAY

PDP-503PE PDP-503PU

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	Remarks
	PDP-503PE	PDP-503PU		
WYVI6	○	—	AC220 - 240V	
KUC	—	○	AC120V	

● This Service Manual should be used together with the following manual(s).

Model No.	Order No.	Remarks
PDP-503PE PDP-503PU	ARP3108	SCHEMATIC DIAGRAM and PCB DIAGRAM

● This product is component of system.

Component	System		Service Manual	Remarks
Plasma Display System	PDP-503HDE	PDP-5030HD	—	
	PDP-R03E	PDP-R03U	PDP-R03E : ARP3110 PDP-R03U : ARP3113	
	PDP-503PE	PDP-503PU	ARP3107 ARP3108	This service manual



For details, refer to "Important symbols for good services".

SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols  (fast operating fuse) and/or  (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible  (fusible de type rapide) et/ou  (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS



NOTICE :Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed :

1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
3. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and service technician.
 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
 - Always return the internal wiring to the original styling.
 - Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
 7. Perform the following precautions for the PDP panel.
 - When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
 - Make sure that the panel vent does not break. (Check that the cover is attached.)
 - Handle the FPC connected to the panel carefully. Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
 8. Pay attention to the following.
 - When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
 - Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

Leakage Current Cold Check

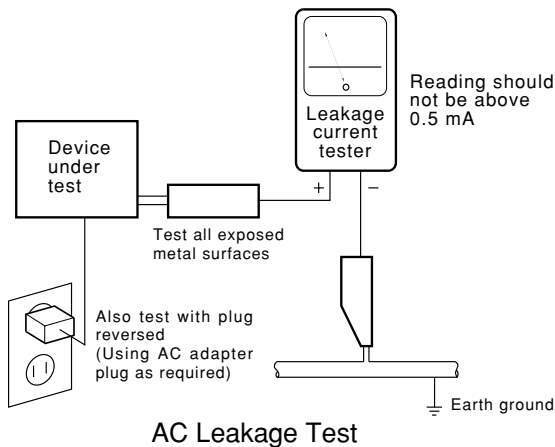
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3M\Omega$ and a maximum resistor reading of $5M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

PRODUCT SAFETY NOTICE



Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a $\triangle$ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

CHARGED SECTION AND HIGH VOLTAGE GENERATING POINT



■ Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

1. AC Power Cord
2. AC Inlet with Filter
3. Power Switch (S1)
4. Fuse (In the SW POWER SUPPLY Module)
5. STB Transformer and Converter Transformer
(In the SW POWER SUPPLY Module)
6. Other primary side of the SW POWER SUPPLY Module

■ High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

1. SW POWER SUPPLY Module (225V)
2. X DRIVE Assy (–300V to 225V)
3. Y DRIVE Assy (355V)
4. SCAN (A) Assy (355V)
5. SCAN (B) Assy (355V)
6. X CONNECTOR (A) Assy (–300V to 225V)
7. X CONNECTOR (B) Assy (–300V to 225V)

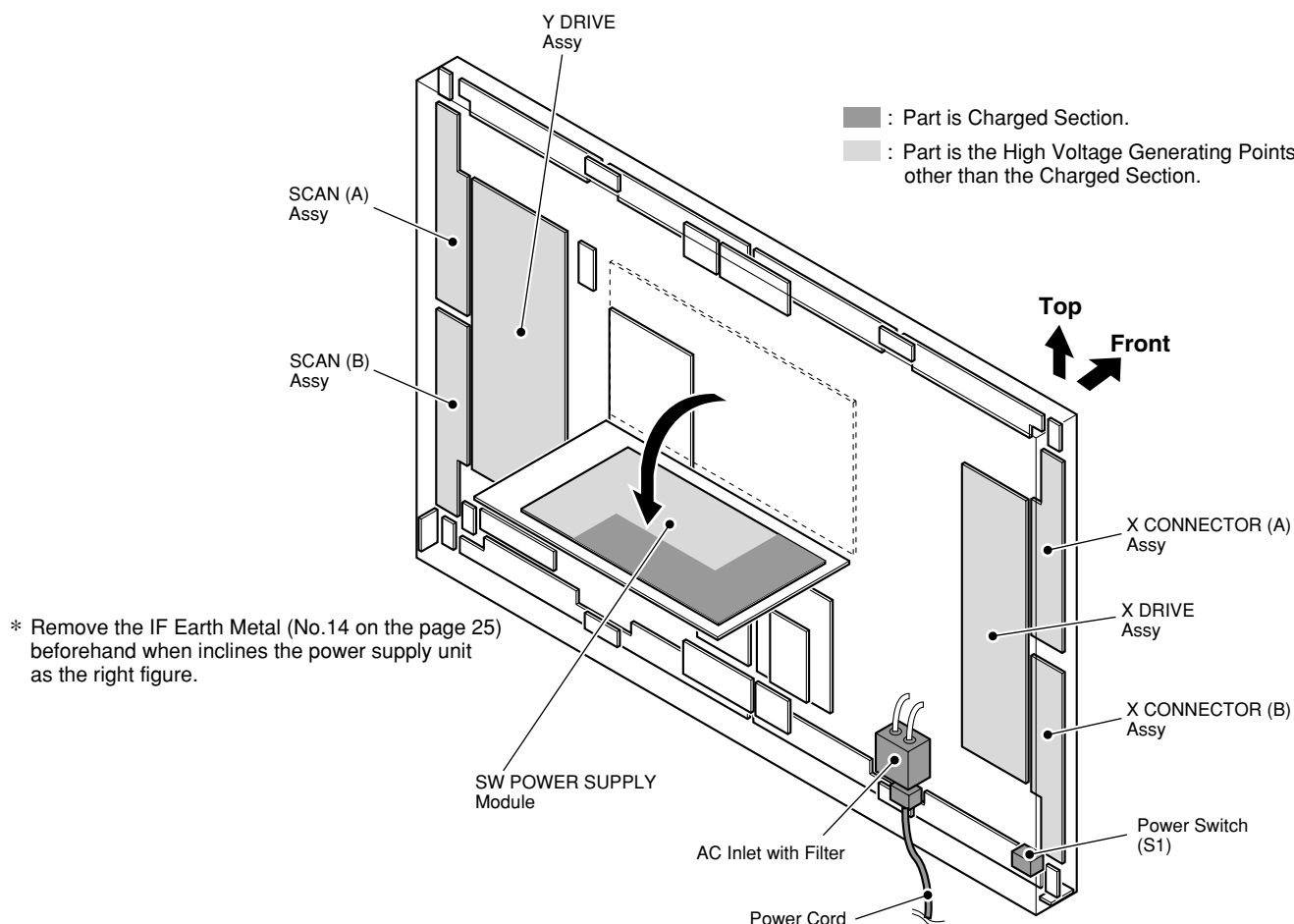


Fig.1 Charged Section and High Voltage Generating Point (Rear View)

[Important symbols for good services]

In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely. When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety

You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments

To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning

For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws

To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts

Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.

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 (For SCHEMATIC DIAGRAM, refer to ARP3108)

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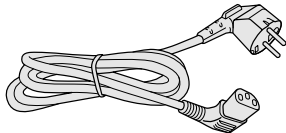
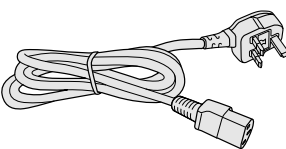
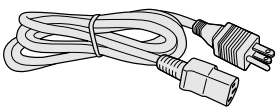
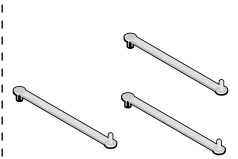
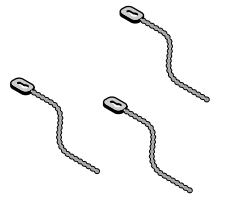
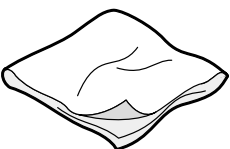
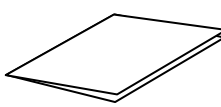
8. PANEL FACILITIES 108

1. SPECIFICATIONS

Item	Model: PDP-503PE	Model: PDP-503PU
Number of Pixels	1280 × 768 pixels	
Audio Amplifier	12 W + 12 W (10% distortion)	
Power Requirement	AC 220–240 V, 50/60 Hz, 356 W (0.6 W Standby)	AC 120 V, 60 Hz, 370 W (0.6 W Standby)
Dimensions	1218 (W) × 714 (H) × 98 (D) mm [47 ^{31/32} (W) × 28 ^{1/8} (H) × 3 ^{7/8} (D) inch]	
Weight	38.9 kg (85.8 lbs)	
Accessories	Power Cord, Cleaning Cloth, Three speed clamps, Three bead bands, Warranty card	

• Design and specifications are subject to change without notice.

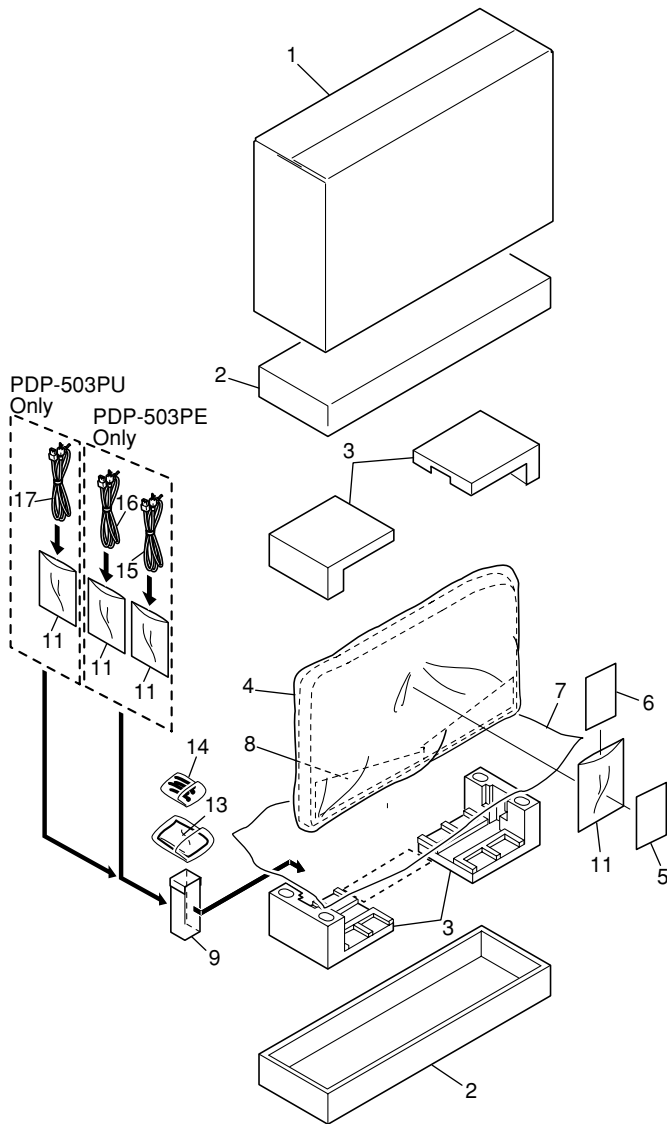
• Accessories

Power cord			
(ADG1173)  	(ADG1193)  	(ADG1178)  	
(For Europe, except U.K. and Eire)	(For U.K., and Eire)	(For North America)	
Binder Assy (AEC1908)     Three speed clamps Three bead bands Cleaning cloth (AED1197) Warranty card			

2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 ● The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 ● Screws adjacent to $\blacktriangledown$ mark on the product are used for disassembly.
 ● For the applying amount of lubricants or glue, follow the instructions in this manual.
 (In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING



(1) PACKING PARTS LIST

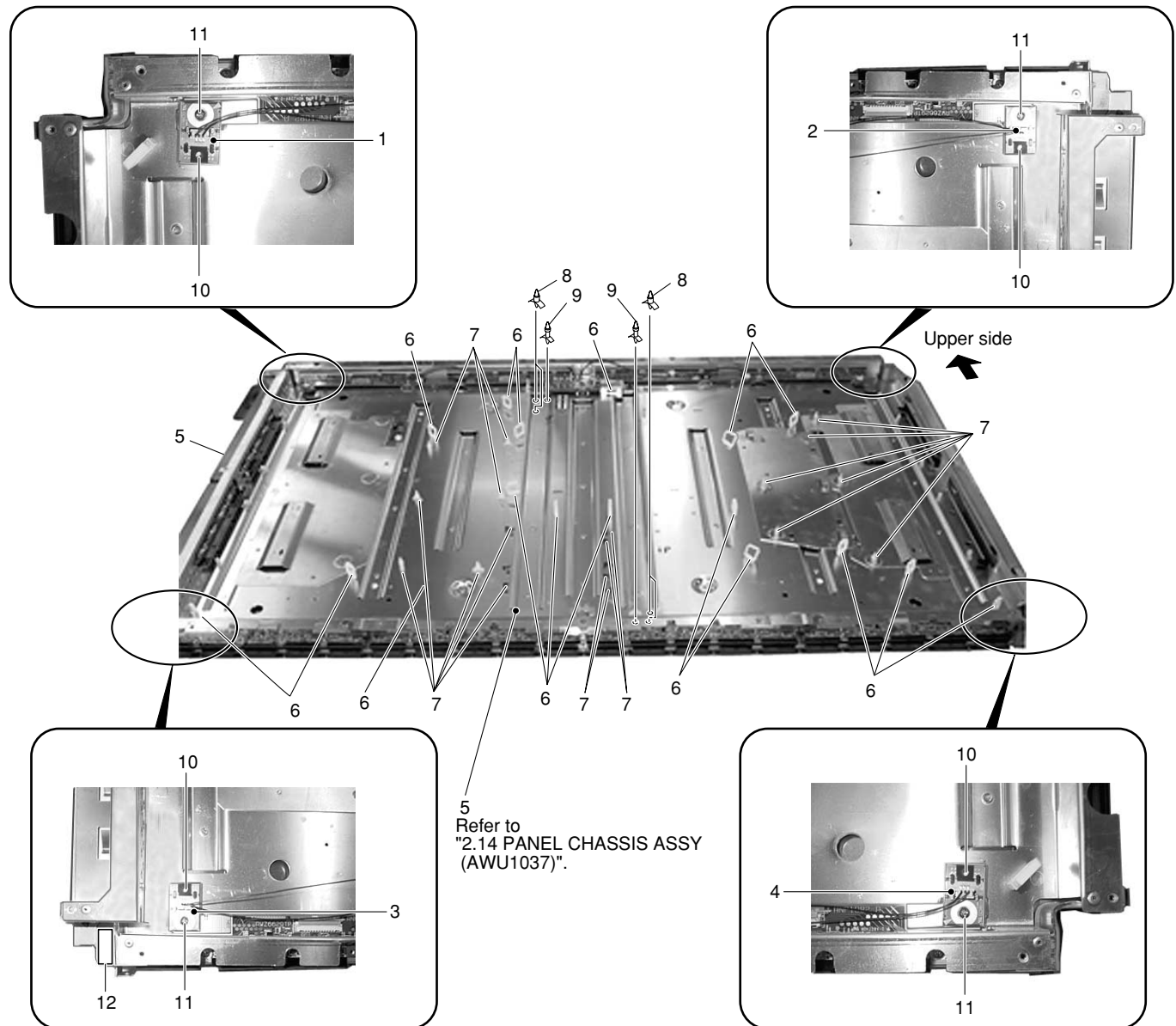
Mark	No.	Description	Part No.
	1	Upper Carton	See Contrast table (2)
	2	Under Carton	AHD3037
	3	Pad	AHA2280
	4	Mirror Mat	AHG1284
	5	Caution Sheet	ARM1201
NSP	6	Warranty Card	See Contrast table (2)
	7	Polyethylene Sheet	AHG1302
	8	Front Sheet	AHB1241
	9	Cord Case	AHC1037
	10		
	11	Vinyl Bag	AHG1310
	12		
	13	Wiping Cloth	AED1197
	14	Binder Assy (Speed Clamp x 3, Bead Band x 3)	AEC1908
Δ	15	Power Cord	See Contrast table (2)
Δ	16	Power Cord	See Contrast table (2)
Δ	17	Power Cord	See Contrast table (2)

(2) CONTRAST TABLE

PDP-503PE/WYVI6 and PDP-503PU/KUC are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			PDP-503PE	PDP-503PU	
			WYVI6	KUC	
NSP	1	Upper Carton	AHD3104	AHD3103	
Δ	6	Warranty Card	ARY1114	ARY1112	
Δ	15	Power Cord	ADG1173	Not used	
Δ	16	Power Cord	ADG1193	Not used	
Δ	17	Power Cord	Not used	ADG1178	

2.2 UNDER LAYER SECTION (1)

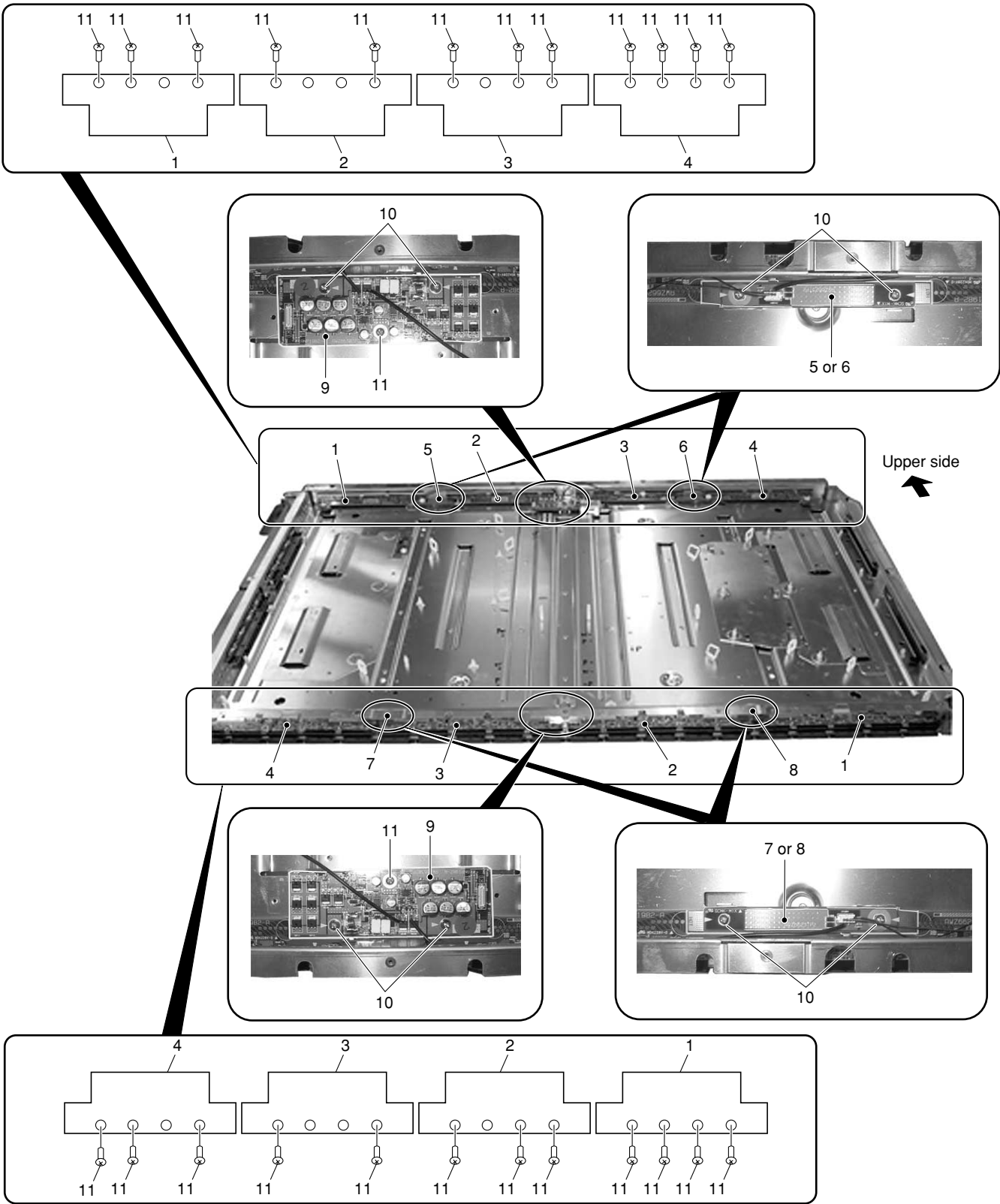


● UNDER LAYER SECTION (1) PARTS LIST

Mark	No.	Description	Part No.
NSP	1	CLAMP A Assy	AWZ6650
NSP	2	CLAMP B Assy	AWZ6651
NSP	3	CLAMP C Assy	AWZ6652
NSP	4	CLAMP D Assy	AWZ6653
	5	Panel Chassis (50) Assy [Refer to "2.14 PANEL CHASSIS (50) ASSY".]	AWU1037

Mark	No.	Description	Part No.
	6	Wire Saddle	AEC1904
	7	Circuit Board Spacer	AEC1872
	8	Circuit Board Spacer	AEC1873
NSP	9	PCB Support	AEC1253
	10	Locking Card Spacer	AEC1736
	11	Screw	ABA1301
	12	V Cushion	AED1205

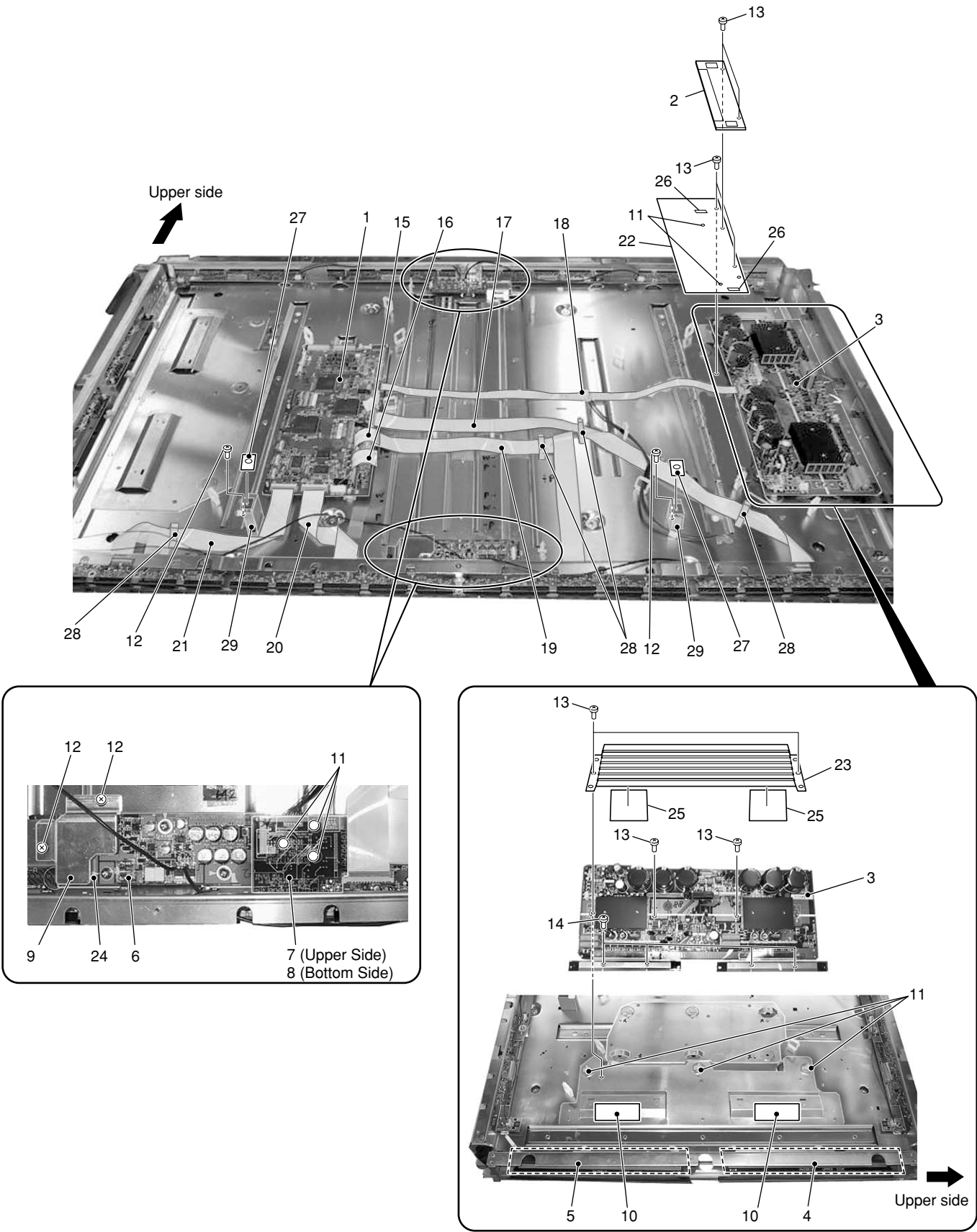
2.3 UNDER LAYER SECTION (2)



● UNDER LAYER SECTION (2) PARTS LIST

Mark	No.	Description	Part No.
NSP	1	ADR CONNECT A Assy	AWZ6626
NSP	2	ADR CONNECT B Assy	AWZ6627
NSP	3	ADR CONNECT C Assy	AWZ6628
NSP	4	ADR CONNECT D Assy	AWZ6629
NSP	5	BRIDGE A Assy	AWZ6620
NSP	6	BRIDGE B Assy	AWZ6621
NSP	7	BRIDGE C Assy	AWZ6622
NSP	8	BRIDGE D Assy	AWZ6623
	9	ADR RESONANCE Assy	AWZ6691
	10	Screw	ABA1301
	11	Screw	VBB30P100FNI

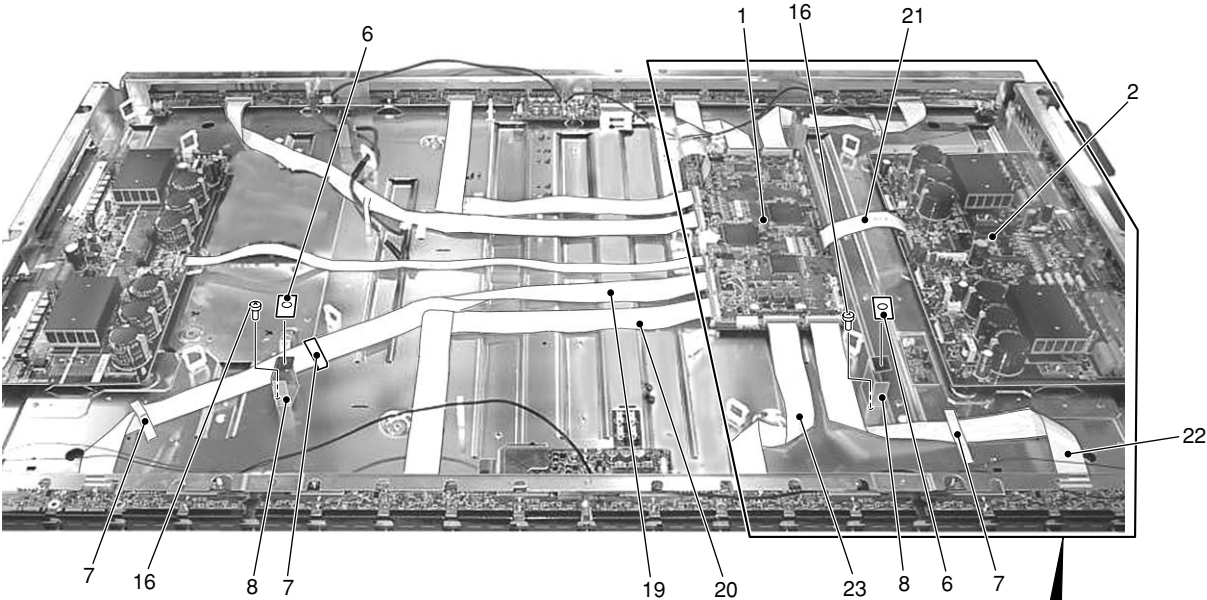
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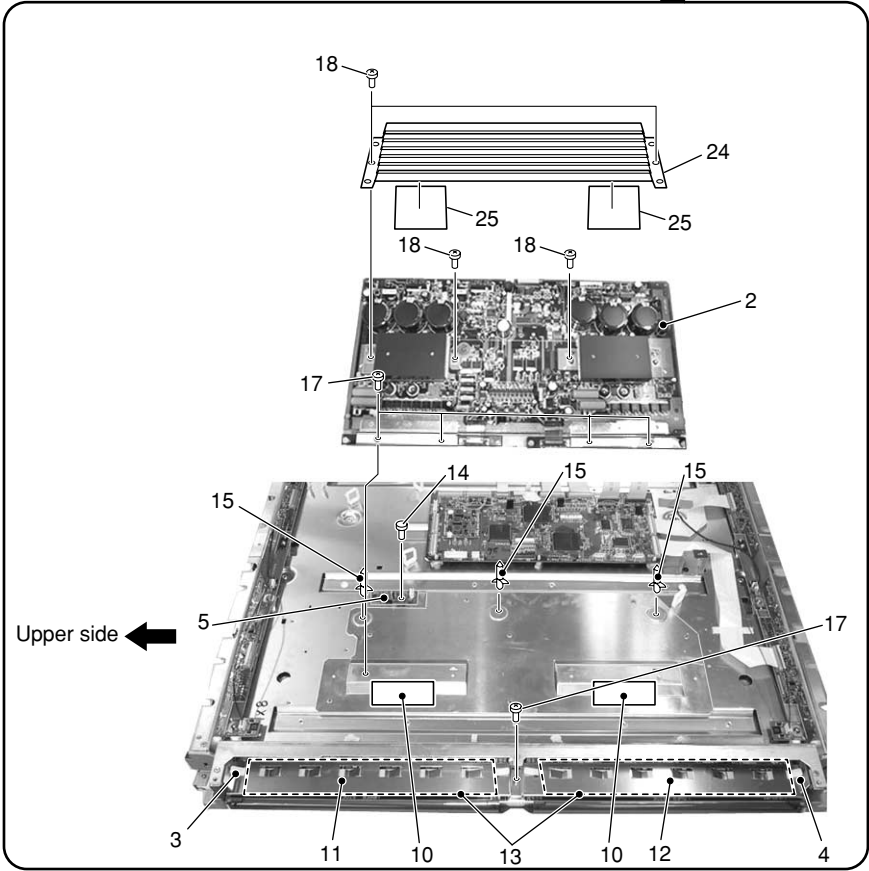
● UNDER LAYER SECTION (3) PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	DIGITAL VIDEO Assy	AWV1903		16	J202 Flexible Flat Cable	ADD1194
	2	V MID CLAMP Assy	AWV1934		17	J209 Flexible Flat Cable	ADD1191
	3	X DRIVE Assy	AWV1901		18	J204 Flexible Flat Cable	ADD1196
NSP	4	X CONNECTOR (A) Assy	AWZ6618		19	J210 Flexible Flat Cable	ADD1190
NSP	5	X CONNECTOR (B) Assy	AWZ6619		20	J211 Flexible Flat Cable	ADD1186
	6	ADR RESONANCE Assy	AWZ6691		21	J212 Flexible Flat Cable	ADD1188
	7	SUB ADDRESS A Assy	AWZ6689	NSP	22	Holder	ANG2509
	8	SUB ADDRESS B Assy	AWZ6690	NSP	23	Drive Heatsink Assy	ANH1598
NSP	9	Scan Heat Sink	ANH1594		24	Silicone Sheet	AEH1039
	10	Coil Silicone Sheet	AEH1048		25	Drive Silicone Sheet	AEH1041
	11	Circuit Board Spacer	AEC1873		26	Niplocker	BEC1136
	12	Screw	ABZ30P060FMC		27	Insulation Sheet	AMR3263
	13	Screw	VBB30P100FNI		28	Flat Clamp	AEC1879
	14	Screw	PMB30P060FNI	NSP	29	Metal Fittings	ANG2464
	15	J201 Flexible Flat Cable	ADD1194				

2.5 UNDER LAYER SECTION (4)



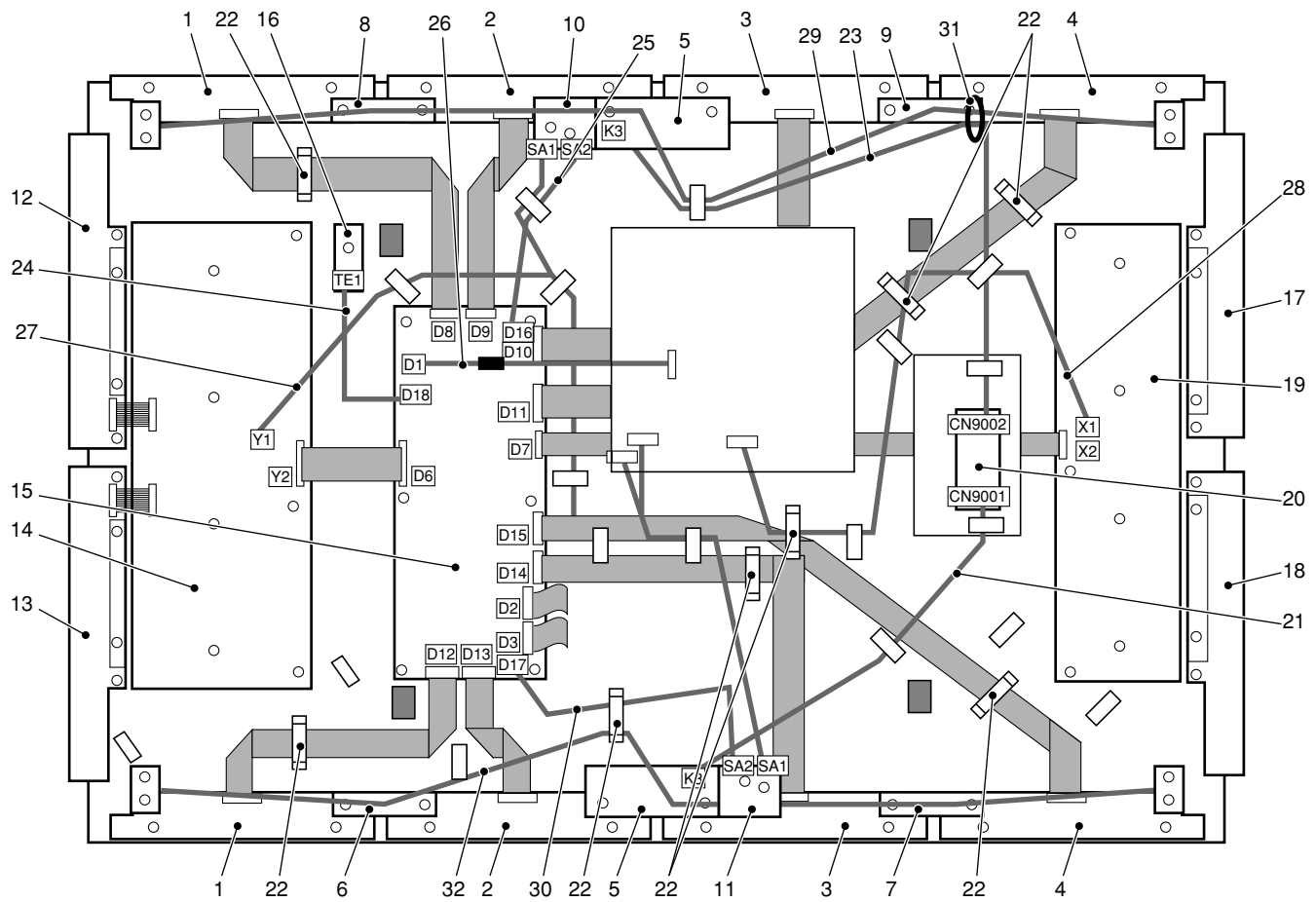
Upper side



● UNDER LAYER SECTION (4) PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NSP NSP	1	DIGITAL VIDEO Assy	AWV1903		11	Scan IC Spring (L)	ABK1026
	2	Y DRIVE Assy	AWZ6645		12	Scan IC Spring (R)	ABK1027
	3	SCAN (A) Assy	AWZ6617		13	Scan Insulation Sheet	AMR3271
	4	SCAN (B) Assy	AWZ6616		14	Rivet	BEC1066
	5	THERMAL SENSOR Assy	AWZ6660		15	Circuit Board Spacer	AEC1872
	6	Insulation Sheet	AMR3263		16	Screw	ABZ30P060FMC
	7	Flat Clamp	AEC1879		17	Screw	PMB30P060FNI
	8	Metal Fittings	ANG2464		18	Screw	VBB30P100FNI
	9				19	J208 Flexible Flat Cable	ADD1191
	10	Coil Silicone Sheet	AEH1048		20	J207 Flexible Flat Cable	ADD1190
					21	J203 Flexible Flat Cable	ADD1184
					22	J205 Flexible Flat Cable	ADD1189
					23	J206 Flexible Flat Cable	ADD1187
				NSP	24	Drive Heatsink Assy	ANH1598
					25	Drive Silicone Sheet	AEH1041

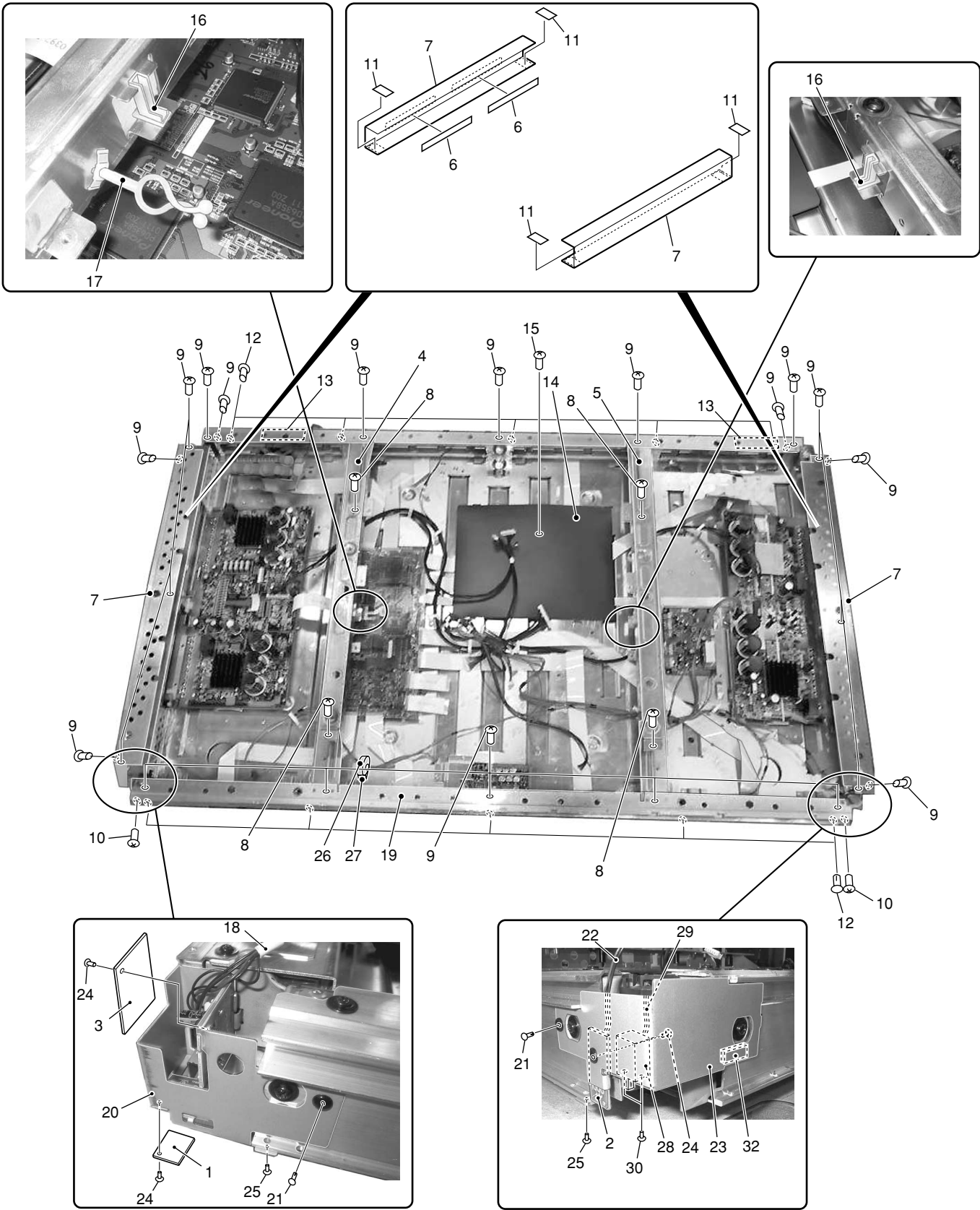
2.6 UNDER LAYER SECTION (5)



● UNDER LAYER SECTION (5) PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NSP	1	ADR CONNECT A Assy	AWZ6626		21	J121 5P Housing Wire	ADX2759
NSP	2	ADR CONNECT B Assy	AWZ6627		22	Flat Clamp	AEC1879
NSP	3	ADR CONNECT C Assy	AWZ6628		23	J120 5P Housing Wire	ADX2761
NSP	4	ADR CONNECT D Assy	AWZ6629		24	J110 3P Housing Wire	ADX2704
	5	ADR RESONANCE Assy	AWZ6691		25	J108 8P Housing Wire	ADX2701
NSP	6	BRIDGE A Assy	AWZ6620		26	J101 Wire F	ADX2726
NSP	7	BRIDGE B Assy	AWZ6621		27	J102 Wire E	ADX2694
NSP	8	BRIDGE C Assy	AWZ6622		28	J103 13P Housing Wire	ADX2700
NSP	9	BRIDGE D Assy	AWZ6623		29	J116 4P Housing SP Wire	ADX2756
	10	SUB ADDRESS A Assy	AWZ6689		30	J109 Wire G	ADX2720
	11	SUB ADDRESS B Assy	AWZ6690		31	Binder	AEC-093
NSP	12	SCAN (A) Assy	AWZ6617		32	J117 4P Housing SP Wire	ADX2756
NSP	13	SCAN (B) Assy	AWZ6616				
	14	Y DRIVE Assy	AWZ6645				
	15	DIGITAL VIDEO Assy	AWV1903				
	16	THERMAL SENSOR Assy	AWZ6660				
NSP	17	X CONNECTOR (A) Assy	AWZ6618				
NSP	18	X CONNECTOR (B) Assy	AWZ6619				
	19	X DRIVE Assy	AWV1901				
	20	V MID CLAMP Assy	AWV1934				

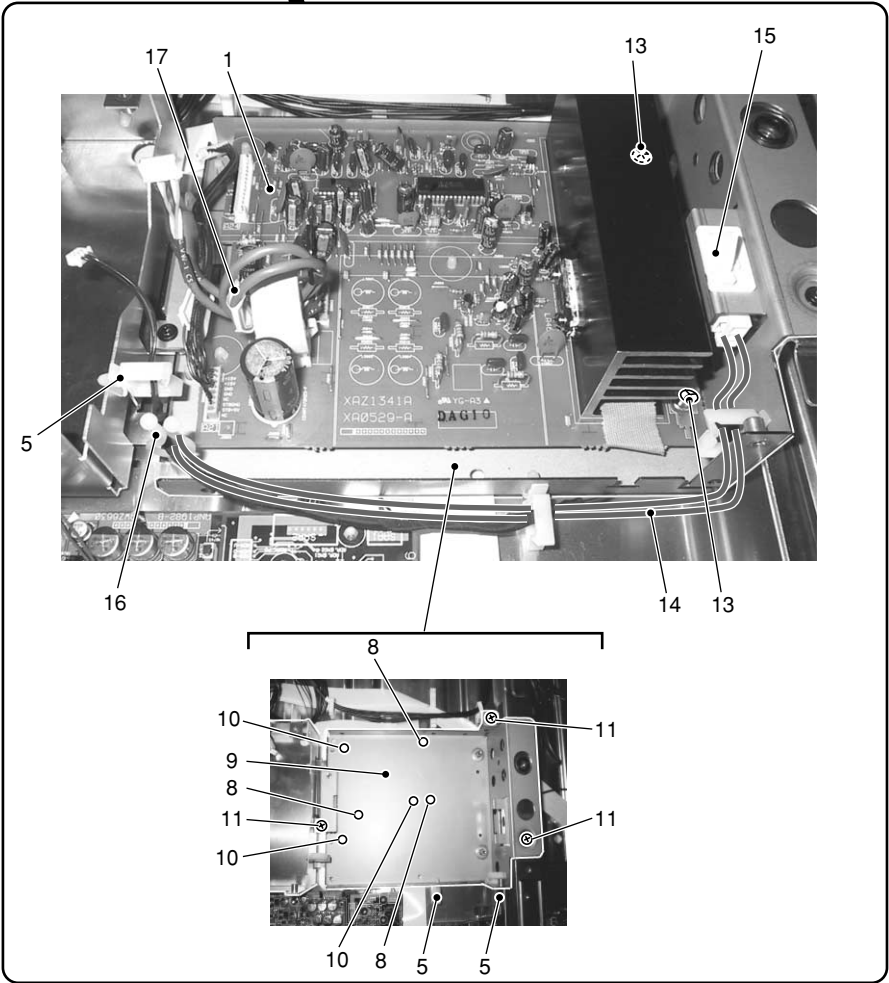
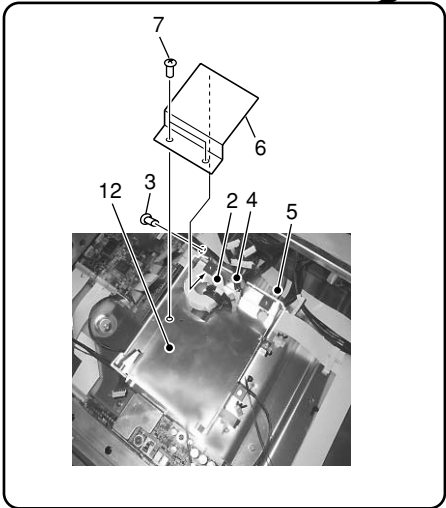
2.7 MIDDLE LAYER SECTION (1)



● MIDDLE LAYER SECTION (1) PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	IR (P) Assy	AWZ6658		16	Card Corner Holder	BEC1144
	2	LED Assy	AWZ6655		17	Niplocker	BEC1136
	3	FRONT KEY CONN Assy	AWZ6657		18	J113 Wire J	ADX2718
NSP	4	Sub Frame L	ANG2455	NSP	19	Front Chassis H	ANA1683
NSP	5	Sub Frame R	ANG2456	NSP	20	IR Holder	ANG2494
	6	FPC Cushion	AEB1370		21	Nylon Rivet	AEC1671
NSP	7	Front Chassis V	ANA1661		22	J104 3P Housing Wire	ADX2732
	8	Screw	ABA1283	NSP	23	Switch Holder	ANG2493
	9	Screw	ABA1294		24	Screw	BMZ30P040FMC
	10	Screw	BMZ30P060FMC		25	Screw	ABZ30P050FZK
	11	V Cushion	AED1205		26	Ferrite Core (L6)	ATX1037
NSP	12	Card Spacer	AEC1902		27	Ferrite Core Holder	AEC1818
	13	Spacer B	AMR3300		28	Power Switch (S1)	ASG1082
	14	Power Sheet	AMR3291		29	J106 Wire PC	ADX2723
	15	Rivet	BEC1066		30	Screw	BMZ30P060FZK
					31		
					32	Gascket R	ANK1695

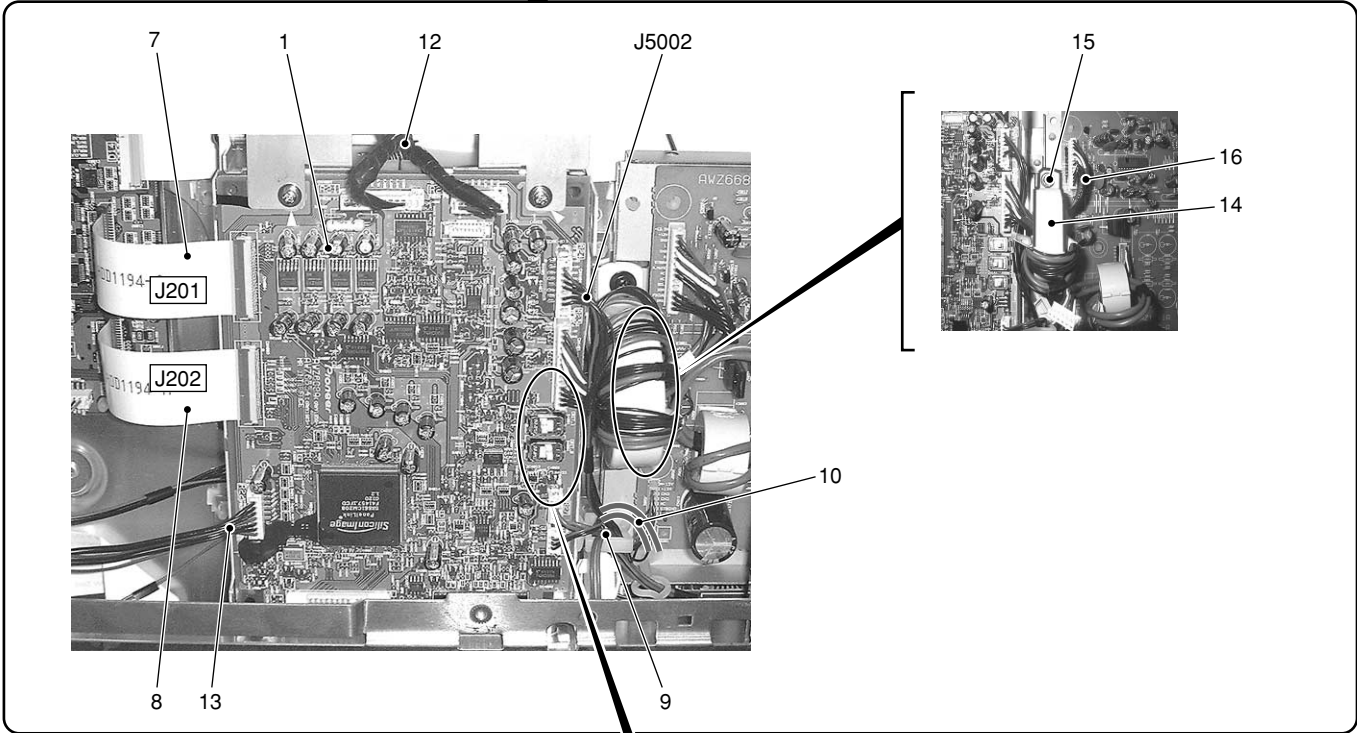
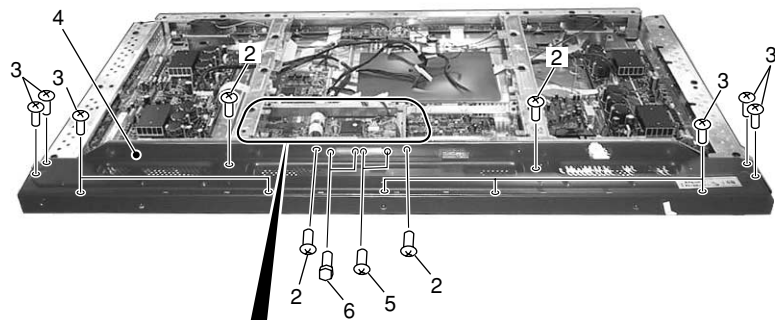
2.8 MIDDLE LAYER SECTION (2)



● MIDDLE LAYER SECTION (2) PARTS LIST

Mark	No.	Description	Part No.
	1	AUDIO AMP Assy	AWZ6687
	2	Toroidal Core (L2)	ATX1042
	3	Screw	ABA1294
	4	Edge Saddle	AEC1571
	5	Wire Saddle	AEC1745
	6	IF Sheet	AMR3298
	7	Nylon Rivet	AEP-211
	8	PCB Spacer	AEC1570
	9	Audio Base	ANA1687
	10	Spacer	AEC1360
	11	Screw	AMZ30P060FZK
	12	IF Shield	ANA1675
	13	Screw	PMB30P060FNI
	14	J215 3P Housing Wire	ADX2757
	15	Power Switch (S2)	ASG1089
	16	Niplocker	BEC1136
	17	J214 3P Housing Wire	ADX2735

2.9 UPPER LAYER SECTION (1)

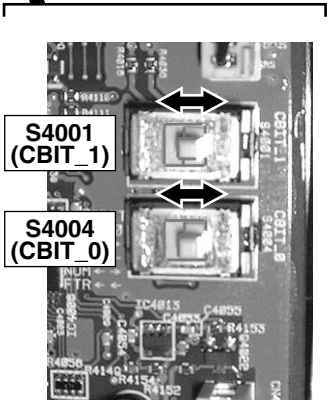


■ Caution in the MR INTERFACE Assy Replacement

Set the slide switches in accordance with applicable model when replacing the MR INTERFACE Assy.

	S4001 CBIT_1	S4004 CBIT_0
PDP-503P	→	→
PDP-503PE	←	→
PDP-503PU	→	→

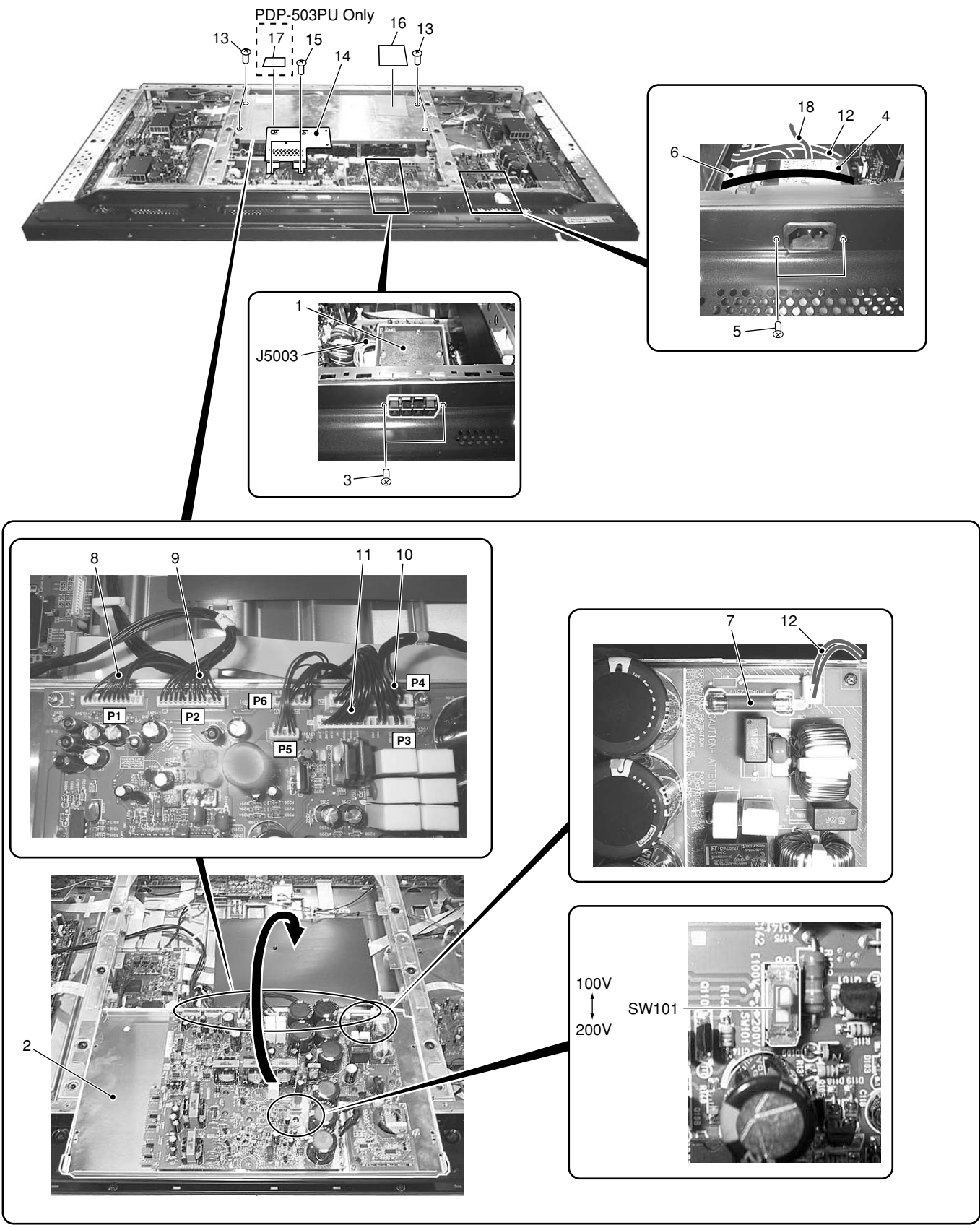
Note 1 : When there is not S4004, set only S4001.
Note 2 : When there are not S4001 and S4004, setting is unnecessary.



● UPPER LAYER SECTION (1) PARTS LIST

Mark	No.	Description	Part No.
	1	MR INTERFACE Assy	AWZ6654
	2	Screw	AMZ30P060FZK
	3	Screw	TBZ40P080FZK
	4	Terminal Panel P	ANG2472
	5	Screw	PMZ26P030FZK
	6	Hexagonal Head Screw	BBA1051
	7	J201 Flexible Flat Cable	ADD1194
	8	J202 Flexible Flat Cable	ADD1194
	9	J104 3P Housing Wire	ADX2732
	10	J214 3P Housing Wire	ADX2735
	11		
	12	J118 Wire P	ADX2765
	13	J113 Wire PJ	ADX2718
	14	Toroidal Core (L3)	ATX1042
	15	Screw	ABA1294
	16	J111 14P Housing Wire	ADX2730

2.10 UPPER LAYER SECTION (2)



(1) UPPER LAYER SECTION (2) PARTS LIST

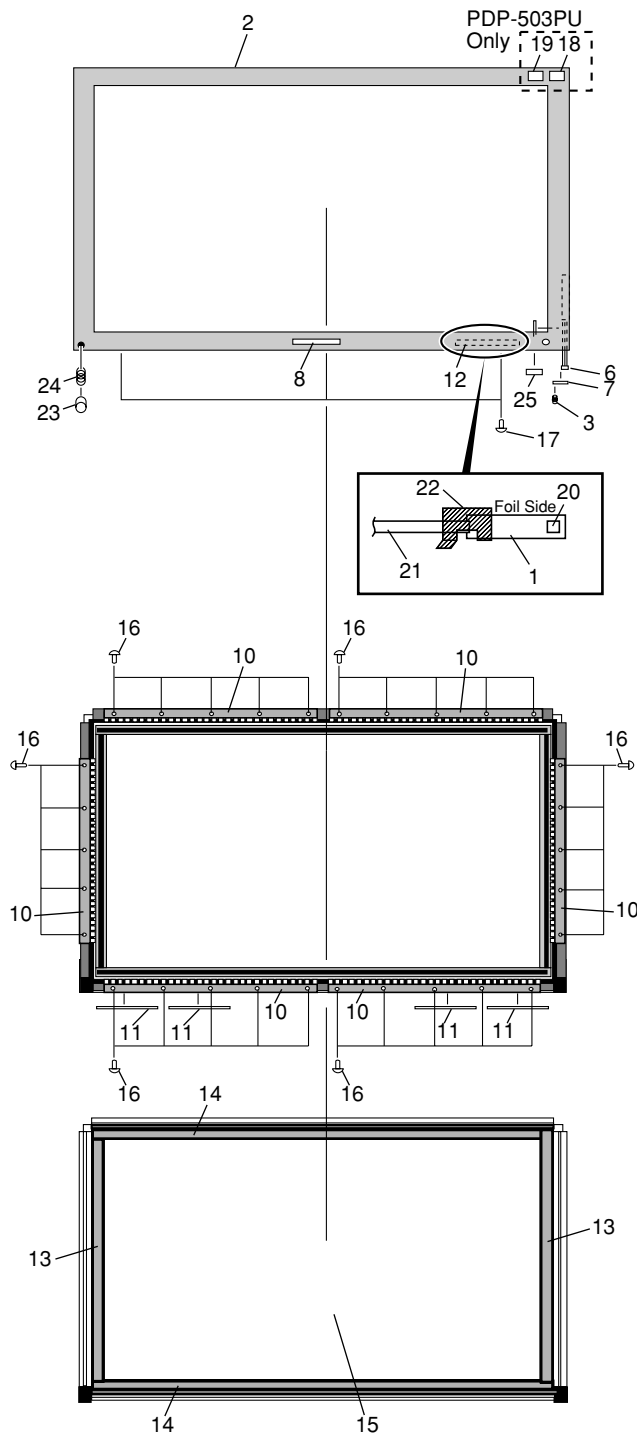
Mark	No.	Description	Part No.
	1	SP TERMINAL Assy	AWZ6688
△	2	SW Power Supply Module	AXY1053
	3	Screw	BPZ30P080FZK
△	4	AC Inlet with Noise Filter (CN1)	AKP1223
	5	Screw	BMZ30P060FZK
△	6	Ferrite Core (L1)	ATX1032
△	7	Fuse (10A)	See Contrast table (2)
	8	J118 Wire P	ADX2765
	9	J101 13P Housing Wire	ADX2726
	10	J103 13P Housing Wire	ADX2700
	11	J102 Wire E	ADX2694
	12	J105 Wire PB	ADX2722
	13	Screw	AMZ30P060FZK
	14	IF Earth Metal	ANA1690
	15	Screw	PMB30P060FNI
	16	Silicone Sheet	AEH1035
	17	Solder Warning Label	See Contrast table (2)
	18	J114 Earth Wire	ADX2709

(2) CONTRAST TABLE

PDP-503PE/WYVI6 and PDP-503PU/KUC are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			PDP-503PE	PDP-503PU	
			WYVI6	KUC	
△	7	Fuse (10A)	AEK1071	AEK1069	
	17	Solder Warning Label	Not used	AAX2644	

2.11 FRONT CASE SECTION



(1) FRONT CASE SECTION PARTS LIST

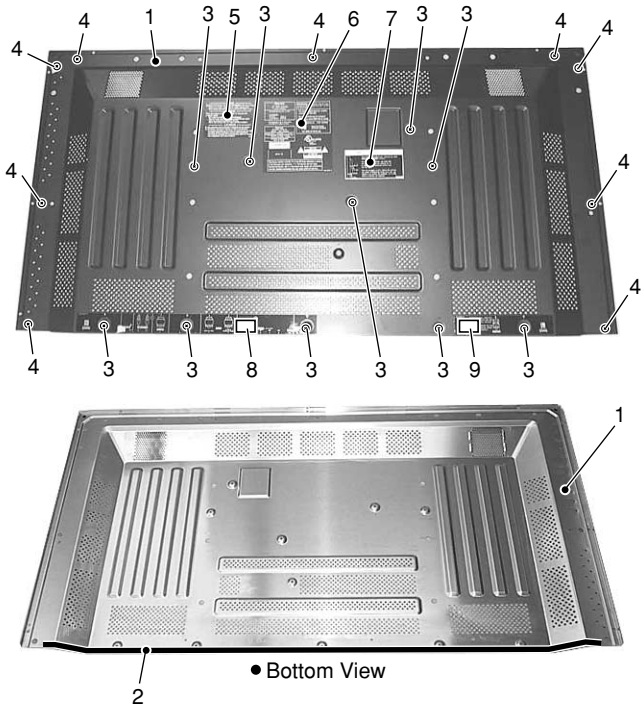
Mark	No.	Description	Part No.
	1	FRONT KEY Assy	AWZ6656
	2	Front Case 50 (P)	AMB2722
	3	Rivet	AEC1877
	4		
	5		
	6	Ferrite Core (L5)	ATX1043
	7	Lead Cover (P)	AMB2704
	8	Pioneer Badge	AAM1091
	9		
NSP	10	Panel Holder	ANG2508
	11	Front Spacer	AEC1896
	12		
	13	Panel Cushion V	AED1199
	14	Panel Cushion H	AED1198
	15	Protect Panel Assy	AMR3304
	16	Screw	ABZ30P050FZK
	17	Screw	VMZ30P060FZK
	18	Energy Star Label	See Contrast table (2)
	19	HDTV Label	See Contrast table (2)
	20	PCB Spacer	AEC1913
NSP	21	J213 Flexible Flat Cable	ADD1193
	22	Flexible Seal (P)	AEH1052
	23	Power Button	AAD4113
	24	Coil Spring	ABH1108
	25	Serial Sheet	AAX2609

(2) CONTRAST TABLE

PDP-503PE/WYVI6 and PDP-503PU/KUC are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			PDP-503PE	PDP-503PU	
			WYVI6	KUC	
	18	Energy Star Label	Not used	AAX2865	
	19	HDTV Label	Not used	AAX2891	

2.12 REAR SECTION



(1) REAR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Rear Case (50P)	ANE1598
	2	Gascket A	ANK1688
	3	Screw	AMZ30P060FZK
	4	Screw	TBZ40P080FZK
	5	Cleaning Label	AAX2751
NSP	6	Name Label (HD)	See Contrast table (2)
	7	Bolt Caution Label	AAX2852
	8	Terminal Display Label P	AAX2858
	9	Terminal Display Label L	See Contrast table (2)

(2) CONTRAST TABLE

PDP-503PE/WYVI6 and PDP-503PU/KUC are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			PDP-503PE	PDP-503PU	
			WYVI6	KUC	
NSP	6	Name Label (HD)	AAL2358	AAL2357	
	9	Terminal Display Label L	AAX2860	AAX2859	

2.13 PDP SERVICE ASSY 503 (AWU1040)

PDP Service Assy 503 (AWU1040) consists of the following parts.

● PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NSP		Panel Chassis (50) Assy	AWU1037			Insulation Sheet	AMR3263
NSP		Front Chassis V	ANA1661			Scan Insulation Sheet	AMR3271
NSP		Front Chassis H (W)	ANA1679			Niplocker	BEC1136
NSP		Front Chassis H	ANA1683			Card Corner Holder	BEC1144
NSP		Sub Frame L	ANG2499			Screw	ABA1283
NSP		Sub Frame R	ANG2500			Screw	ABA1294
		Scan IC Spring (L)	ABK1026			Screw	ABZ30P060FMC
		Scan IC Spring (R)	ABK1027			Screw	BMZ30P060FMC
NSP		Metal Fitting	ANG2464			Screw	PMB30P060FNI
		FPC Cushion 50	AEB1370			Screw	VBB30P100FNI
NSP		PCB Spacer	AEC1211			Bolt	ABA1259
		Locking Card Spacer	AEC1736			Corner Pad	AHA2203
		Circuit Board Spacer	AEC1872			Corner Pad	AHA2204
		Circuit Board Spacer	AEC1873			Upper Carton	AHD3119
		Spacer	AEC1896			Under Carton	AHD3120
NSP		Card Spacer	AEC1902			Packing Sheet	AHG1291
		Wire Saddle	AEC1904			Fitting Board	AHK1012
		Panel Cushion H	AED1198			Washer	WB80FZB
		Panel Cushion V	AED1199				
		V Cushion	AED1205				

2.14 PANEL CHASSIS (50) ASSY (AWU1037)

Panel Chassis (50) Assy (AWU1037) consists of the following parts.

● PARTS LIST

Mark	No.	Description	Part No.
NSP		SCAN FUKUGO ASSY	AWV1898
		ADDRESS FUKUGO ASSY	AWV1900
NSP		Address Module (IC1 - IC40)	AXF1110
NSP		FPC (0003)	ADY1065
NSP		FPC (J0001)	ADY1066
NSP		Chassis Assy	ANA1696
NSP		— Chassis	ANA1655
NSP		— Base Chassis	ANA1656
NSP		— Scan Heatsink	ANH1595
NSP		— Corner Angle A	ANG2457
NSP		— Corner Angle B	ANG2458
NSP		— Panel Silicone Sheet	AEH1055
NSP		— Tube Cover	AMR3262
		— Silicone Sheet 50	AEH1037
		— Adhesive Tape 50	AEH1038
		— Adhesive Tape B (50)	AEH1051
		Pin Grommet	AEC1015
		Card Spacer	AEC1889
		Scan Silicone Sheet	AEH1040
NSP		Plasma Panel Assy	AAV1238
		Screw	VBB30P100FNI

● LIST OF ASSY

Mark	No.	Description	Part No.
NSP		SCAN FUKUGO ASSY	AWV1898
NSP		— SCAN (A) ASSY	AWZ6616
NSP		— SCAN (B) ASSY	AWZ6617
NSP		— X CONNECTOR (A) ASSY	AWZ6618
NSP		— X CONNECTOR (B) ASSY	AWZ6619
NSP		— BRIDGE A ASSY	AWZ6620
NSP		— BRIDGE B ASSY	AWZ6621
NSP		— BRIDGE C ASSY	AWZ6622
NSP		— BRIDGE D ASSY	AWZ6623
NSP		— CLAMP A ASSY	AWZ6650
NSP		— CLAMP B ASSY	AWZ6651
NSP		— CLAMP C ASSY	AWZ6652
NSP		— CLAMP D ASSY	AWZ6653
		ADDRESS FUKUGO ASSY	AWV1900
NSP		— ADR CONNECT A ASSY	AWZ6626
NSP		— ADR CONNECT B ASSY	AWZ6627
NSP		— ADR CONNECT C ASSY	AWZ6628
NSP		— ADR CONNECT D ASSY	AWZ6629
		— ADR RESONANCE ASSY	AWZ6630

■ Caution in Replacement of Chassis Block

Please order the PDP Service Assy 503 (AWU1040) when replacing the Chassis block.
PDP Service Assy 503 is all common use parts of for business, public use and module.
Supply it by the state that installed Circuit Board Spacer (AEC1872) and Wire Saddle (AEC1904) as follows.
Therefore need to remove it in accordance with model.

Confirm character carved a seal near the parts, and remove it.

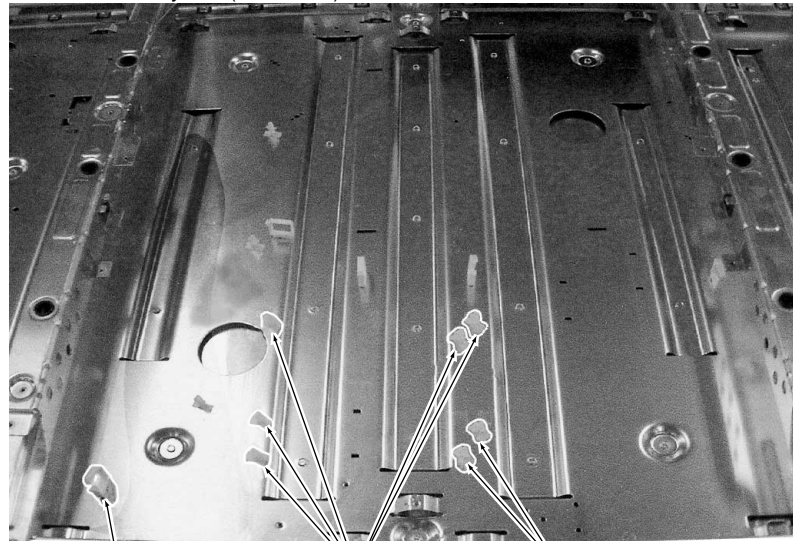
P : Public exclusive use

W : Module exclusive use

PW : Common use of public use and module

* In case of this unit, the parts that "W" is marked removes all.

PDP Service Assy 503 (AWU1040)



Wire Saddle
(AEC1904)
(There is marking of "P" nearby.)

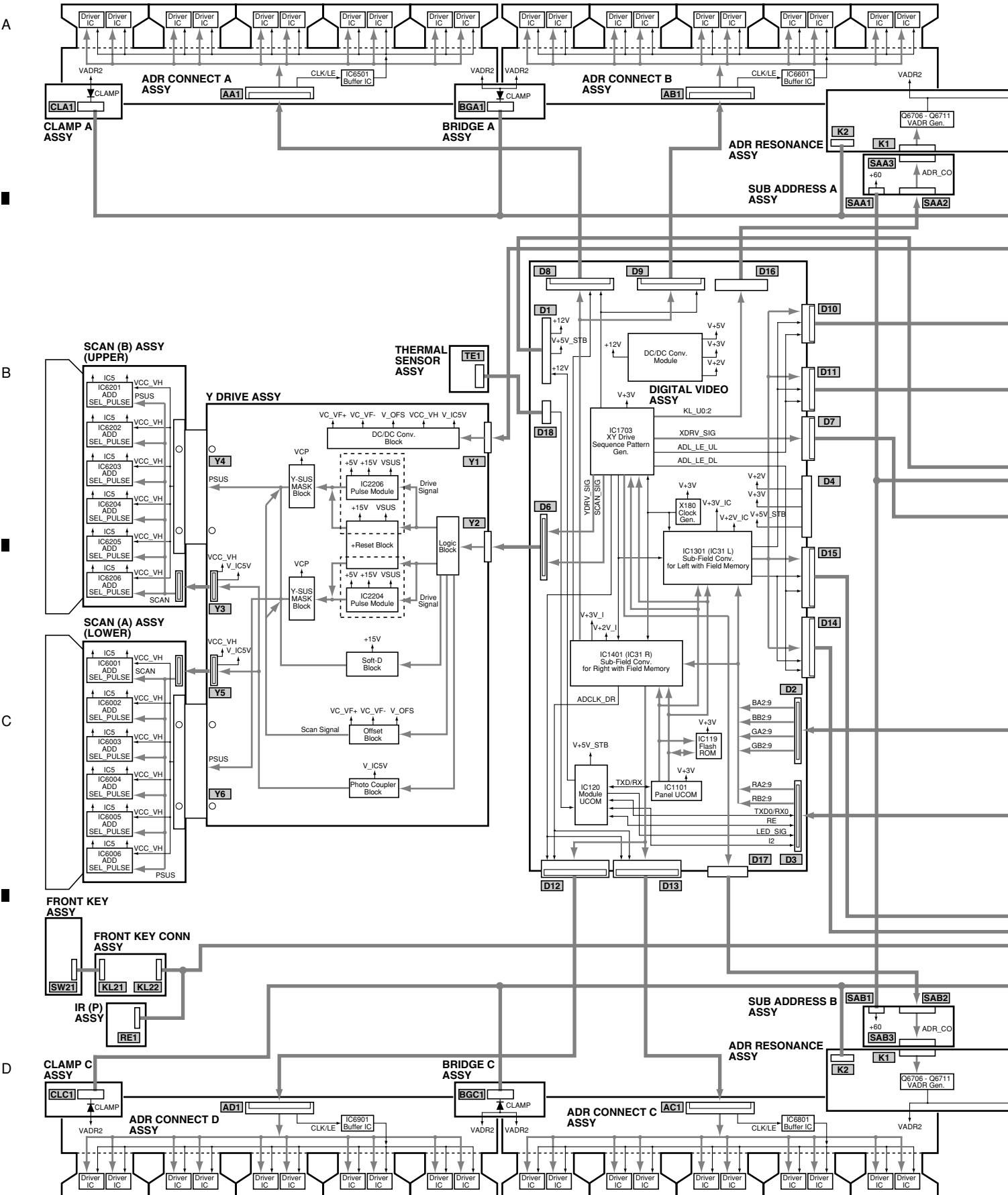
Circuit Board Spacer
(AEC1872)

Circuit Board Spacer
(AEC1872)

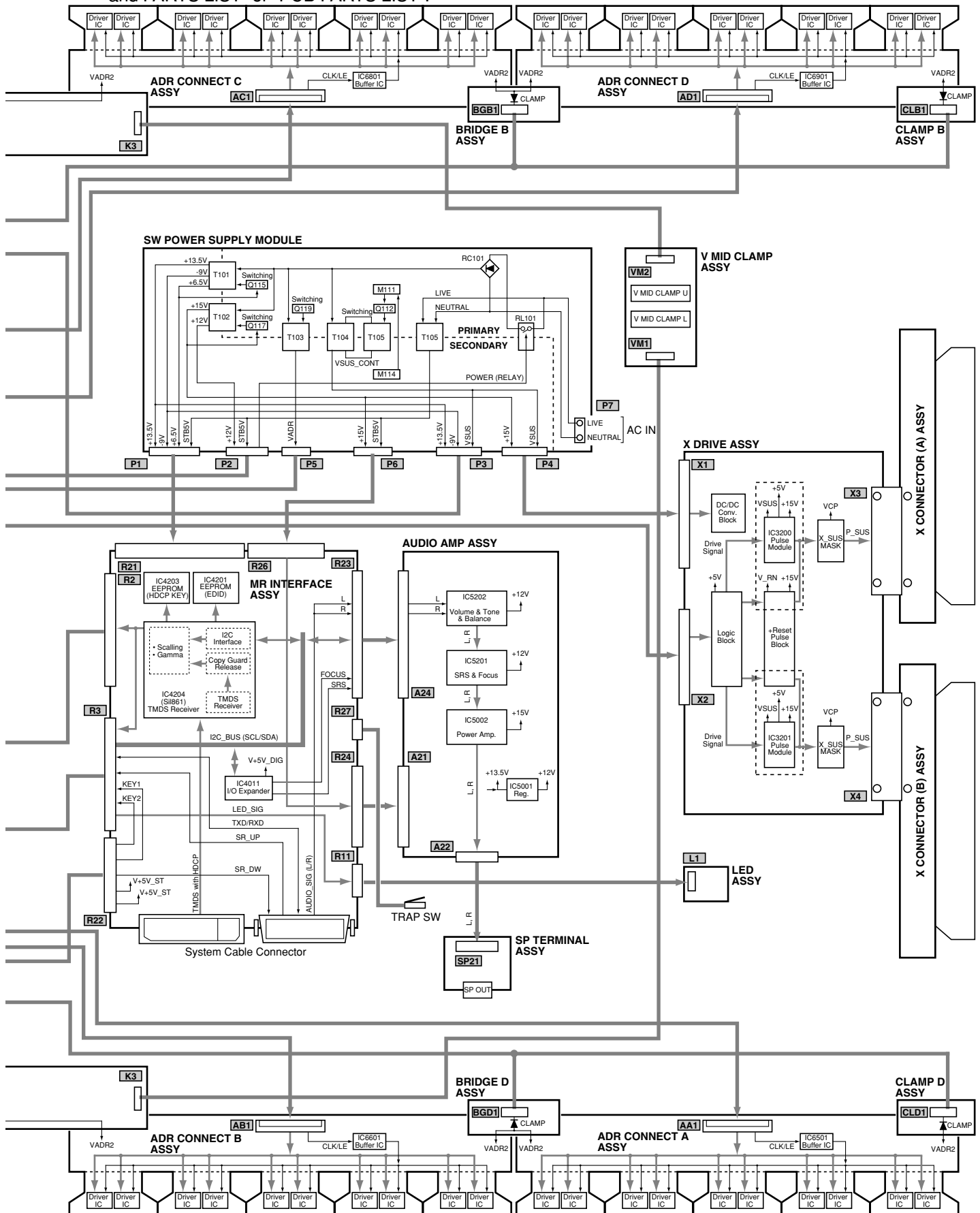
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

3.1.1 OVERALL DIAGRAM

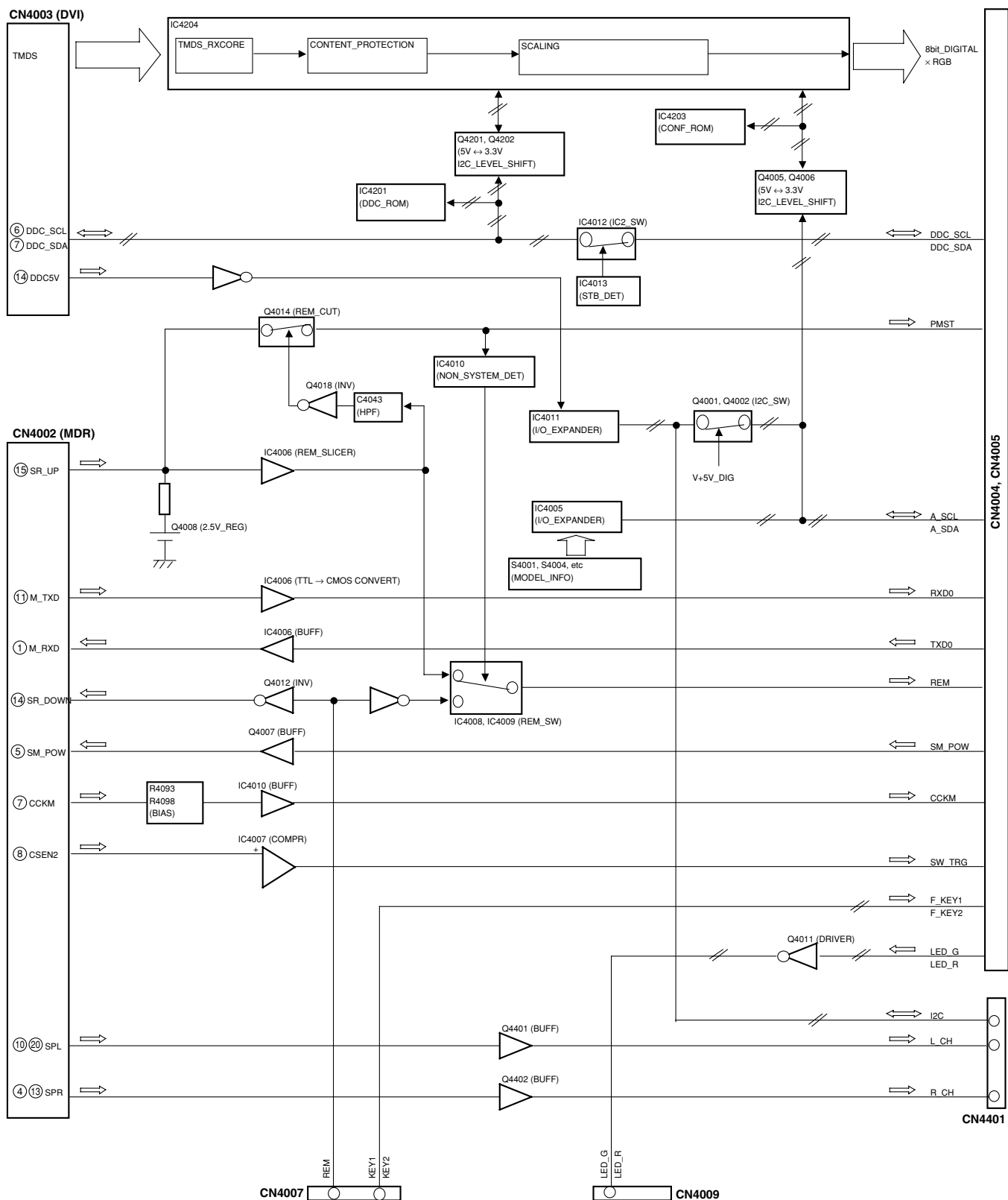


Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



3.1.2 MR INTERFACE ASSY

A



B

C

D

● Voltages

CN4002 (MDR Connector) (↔ Media Receiver)

No.	Name	Description	Voltage at INPUT4 NTSC Input
1	M_RXD	232C bus (PDP → MR)	0-5V swing square wave
2	GND		
3	SENCE	Connecting detection for MR	0.0V DC
4	SPR	Audio signal R ch	Analog audio signal wave
5	SMPOW	MR relay control	3.5V DC
6	GND		
7	CCKM	System activation detection	1.9V DC
8	CSEN2	System activation signal	5.0V DC
9	CSEN1	Not used	
10	SPL	Audio signal L ch	Analog audio signal wave
11	M_TXD	232C bus (MR → PDP)	0-3.3V swing square wave
12	GND		
13	SPR	Audio signal R ch	Analog audio signal wave
14	SR_DW	Remote control signal	5.0V DC
15	SR_UP	MDR connecting detection signal	3.75V DC
		multiplex remote control signal	
16	GND		
17	FRASH_W	Not used	
18	SRST	Not used	
19	GND		
20	SPL	Audio signal L ch	Analog audio signal wave

CN4003 (DVI Connector) (↔ Media Receiver)

No.	Name	Description	Voltage at INPUT4 NTSC Input
1	RX2-	DVI signal	DVI signal
2	RX2+	DVI signal	DVI signal
3	GND		
4	NC		
5	NC		
6	DDC_SCL	I2C for DDC	0-5V swing square wave
7	DDC_SDA	I2C for DDC	0-5V swing square wave
8	NC		
9	RX1-	DVI signal	DVI signal
10	RX1+	DVI signal	DVI signal
11	GND		
12	NC		
13	NC		
14	DDC_+5V	I2C power supply for DDC	5.0V DC
15	GND		
16	HPD	HOT_PLUG detection	5.0V DC
17	RX0-	DVI signal	DVI signal
18	RX0+	DVI signal	DVI signal
19	GND		
20	NC		
21	NC		
22	GND		
23	RXC+	DVI signal	DVI signal
24	RXC-	DVI signal	DVI signal

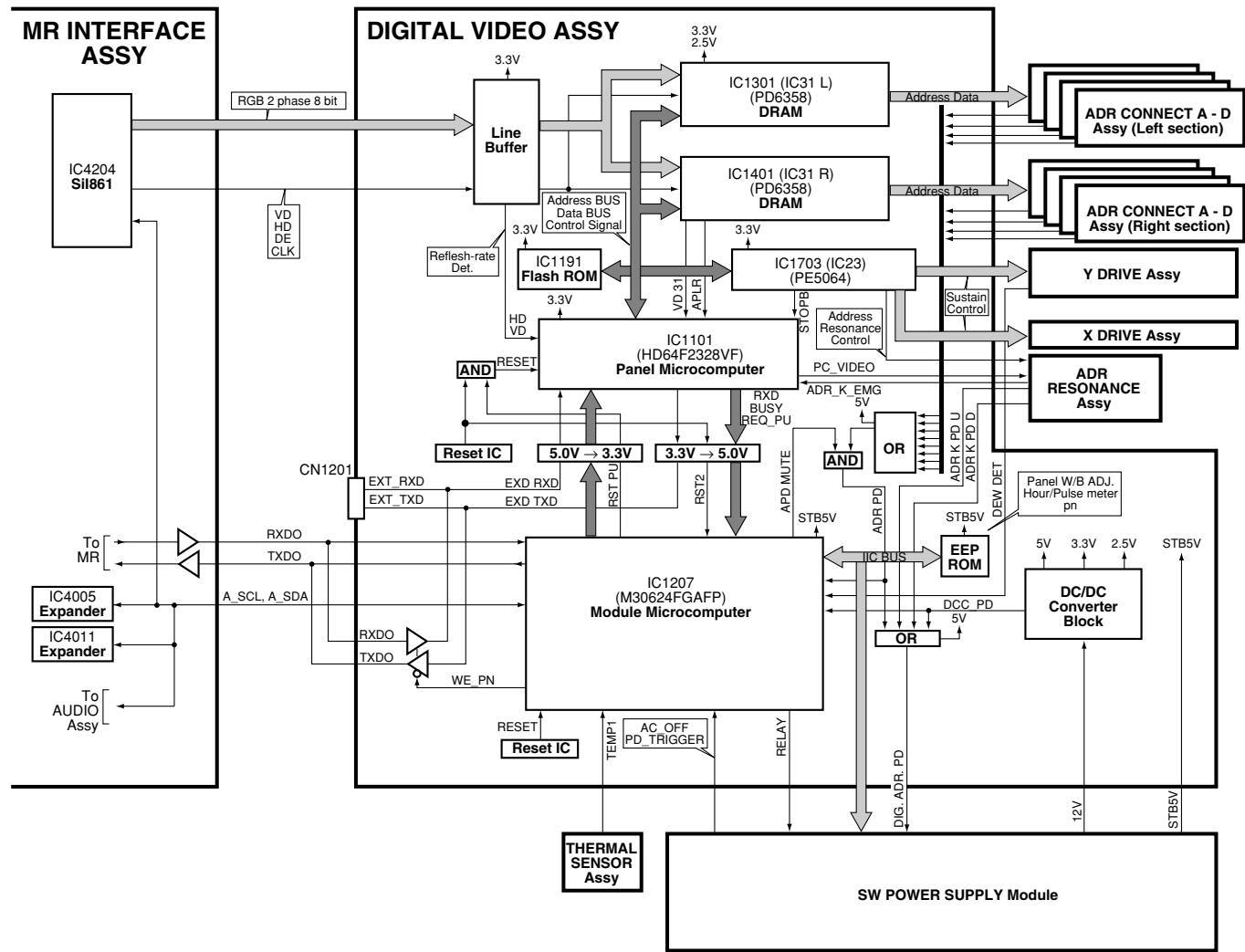
CN4004 (50P_FFC Connector) (↔ DIGITAL VIDEO Assy)

No.	Name	Description	Voltage at INPUT4 NTSC Input
1	GND		
2	GND		
3	NC		
4	NC		
5	NC		
6	NC		
7	BB0	8 bit video signal	0-3.3V swing square wave
8	BA0	8 bit video signal	0-3.3V swing square wave
9	BB1	8 bit video signal	0-3.3V swing square wave
10	BA1	8 bit video signal	0-3.3V swing square wave
11	BB2	8 bit video signal	0-3.3V swing square wave
12	BA2	8 bit video signal	0-3.3V swing square wave
13	BB3	8 bit video signal	0-3.3V swing square wave
14	BA3	8 bit video signal	0-3.3V swing square wave
15	BB4	8 bit video signal	0-3.3V swing square wave
16	BA4	8 bit video signal	0-3.3V swing square wave
17	BB5	8 bit video signal	0-3.3V swing square wave
18	BA5	8 bit video signal	0-3.3V swing square wave
19	BB6	8 bit video signal	0-3.3V swing square wave
20	BA6	8 bit video signal	0-3.3V swing square wave
21	BB7	8 bit video signal	0-3.3V swing square wave
22	BA7	8 bit video signal	0-3.3V swing square wave
23	GND		
24	GND		
25	NC		
26	NC		
27	NC		
28	NC		
29	GB0	8 bit video signal	0-3.3V swing square wave
30	GA0	8 bit video signal	0-3.3V swing square wave
31	GB1	8 bit video signal	0-3.3V swing square wave
32	GA1	8 bit video signal	0-3.3V swing square wave
33	GB2	8 bit video signal	0-3.3V swing square wave
34	GA2	8 bit video signal	0-3.3V swing square wave
35	GB3	8 bit video signal	0-3.3V swing square wave
36	GA3	8 bit video signal	0-3.3V swing square wave
37	GB4	8 bit video signal	0-3.3V swing square wave
38	GA4	8 bit video signal	0-3.3V swing square wave
39	GB5	8 bit video signal	0-3.3V swing square wave
40	GA5	8 bit video signal	0-3.3V swing square wave
41	GB6	8 bit video signal	0-3.3V swing square wave
42	GA6	8 bit video signal	0-3.3V swing square wave
43	GB7	8 bit video signal	0-3.3V swing square wave
44	GA7	8 bit video signal	0-3.3V swing square wave
45	GND		
46	GND		
47	NC		
48	NC		
49	GND		
50	GND		

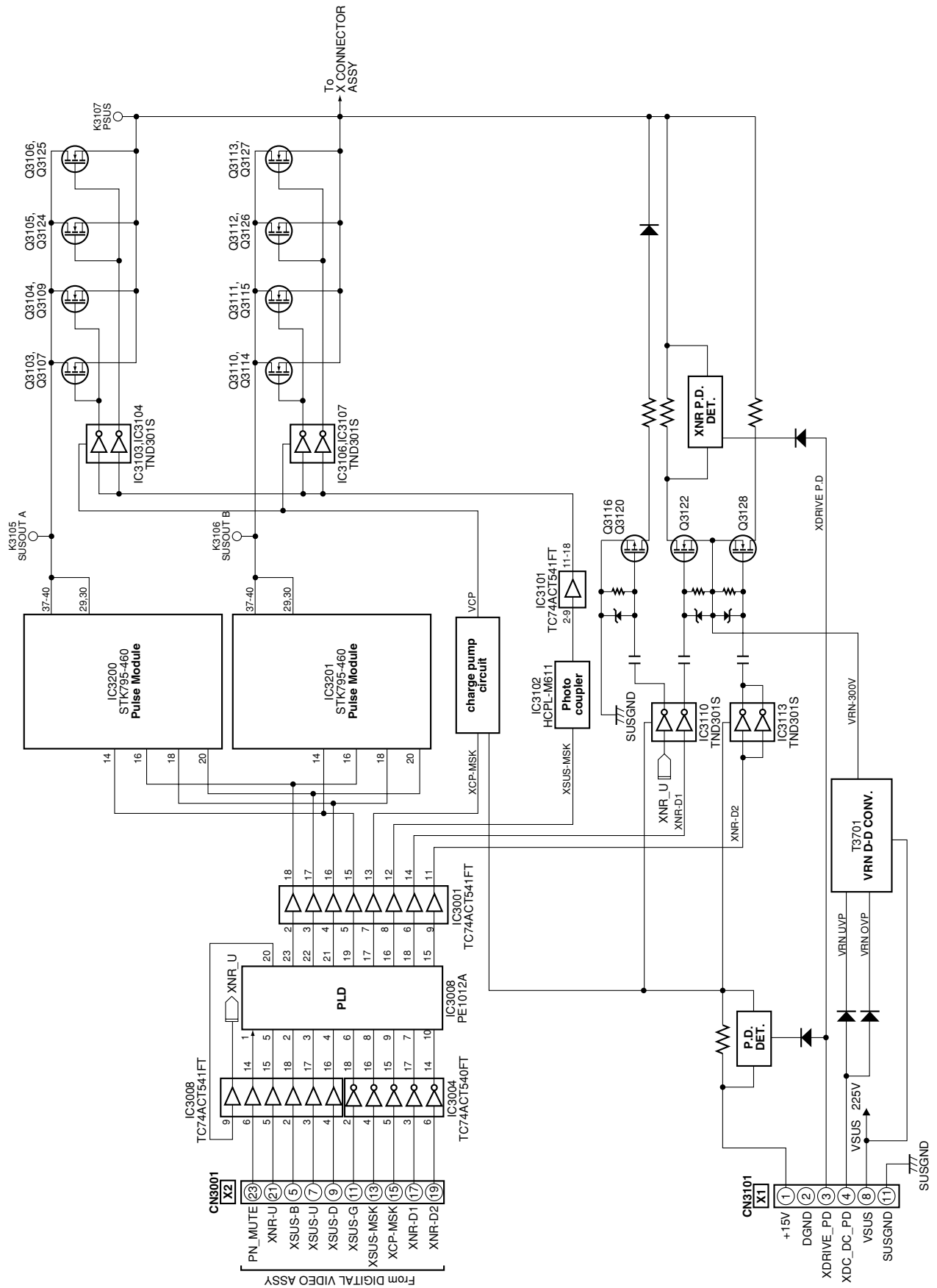
CN4005 (50P_FFC Connector) (↔ DIGITAL VIDEO Assy)

No.	Name	Description	Voltage at INPUT4 NTSC Input
1	NC		
2	NC		
3	NC		
4	NC		
5	RB0	8 bit video signal	0-3.3V swing square wave
6	RA0	8 bit video signal	0-3.3V swing square wave
7	RB1	8 bit video signal	0-3.3V swing square wave
8	RA1	8 bit video signal	0-3.3V swing square wave
9	RB2	8 bit video signal	0-3.3V swing square wave
10	RA2	8 bit video signal	0-3.3V swing square wave
11	RB3	8 bit video signal	0-3.3V swing square wave
12	RA3	8 bit video signal	0-3.3V swing square wave
13	RB4	8 bit video signal	0-3.3V swing square wave
14	RA4	8 bit video signal	0-3.3V swing square wave
15	RB5	8 bit video signal	0-3.3V swing square wave
16	RA5	8 bit video signal	0-3.3V swing square wave
17	RB6	8 bit video signal	0-3.3V swing square wave
18	RA6	8 bit video signal	0-3.3V swing square wave
19	RB7	8 bit video signal	0-3.3V swing square wave
20	RA7	8 bit video signal	0-3.3V swing square wave
21	GND		
22	CLK	Clock	0-3.3V swing square wave (40MHz)
23	GND		
24	DE	Data enable	0-3.3V swing square wave (+ polarity)
25	GND		
26	HD	Horizontal sync. signal	0-3.3V swing square wave
27	GND		
28	VD	Vertical sync. signal	0-3.3V swing square wave (- polarity 48.4kHz)
29	GND		
30	A_SCL	I2C bus	0-5V swing square wave
31	F_KEY1	Front key signal 1	5.0V DC
32	PMST	MDR connection Detect signal	3.75V DC
33	SMPOW	MRrelay control	5.0V DC
34	A_MUTE	Audio mute	0.0V DC
35	CCKM	System activation detect	1.9V DC
36	M_STATE	Si1861 I2C bus master information	0.0V DC
37	SW_STC	Not used	
38	A_NG	Not used	
39	SW_TRG	System activation signal	5.0V DC
40	F_KEY2	Front key signal 2	5.0V DC
41	A_SDA	I2C bus	0-5V swing square wave
42	*LED_G	Green LED control signal	0.0V DC
43	TXD0	232C bus	0-5V swing square wave
44	*LED_R	Red LED control signal	5.0V DC
45	RXD0	232C bus	0-5V swing square wave
46	DDC_SCL	I2C for DDC	0-5V swing square wave
47	REM	Remote control signal	5.0V DC
48	DDC_SDA	I2C for DDC	0-5V swing square wave
49	GND		
50	GND		

3.1.3 DIGITAL VIDEO ASSY



3.1.4 X DRIVE ASSY



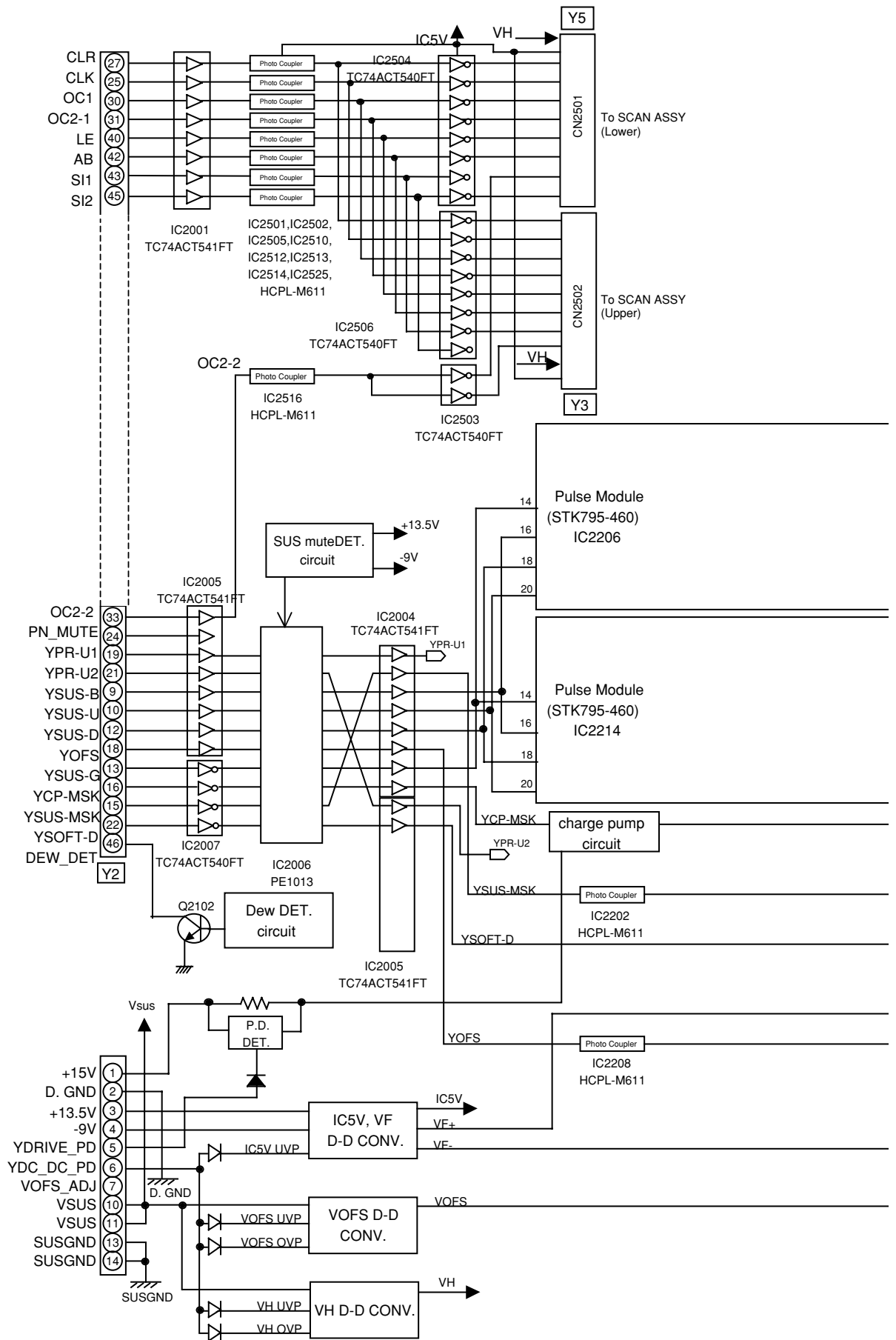
3.1.5 Y DRIVE ASSY

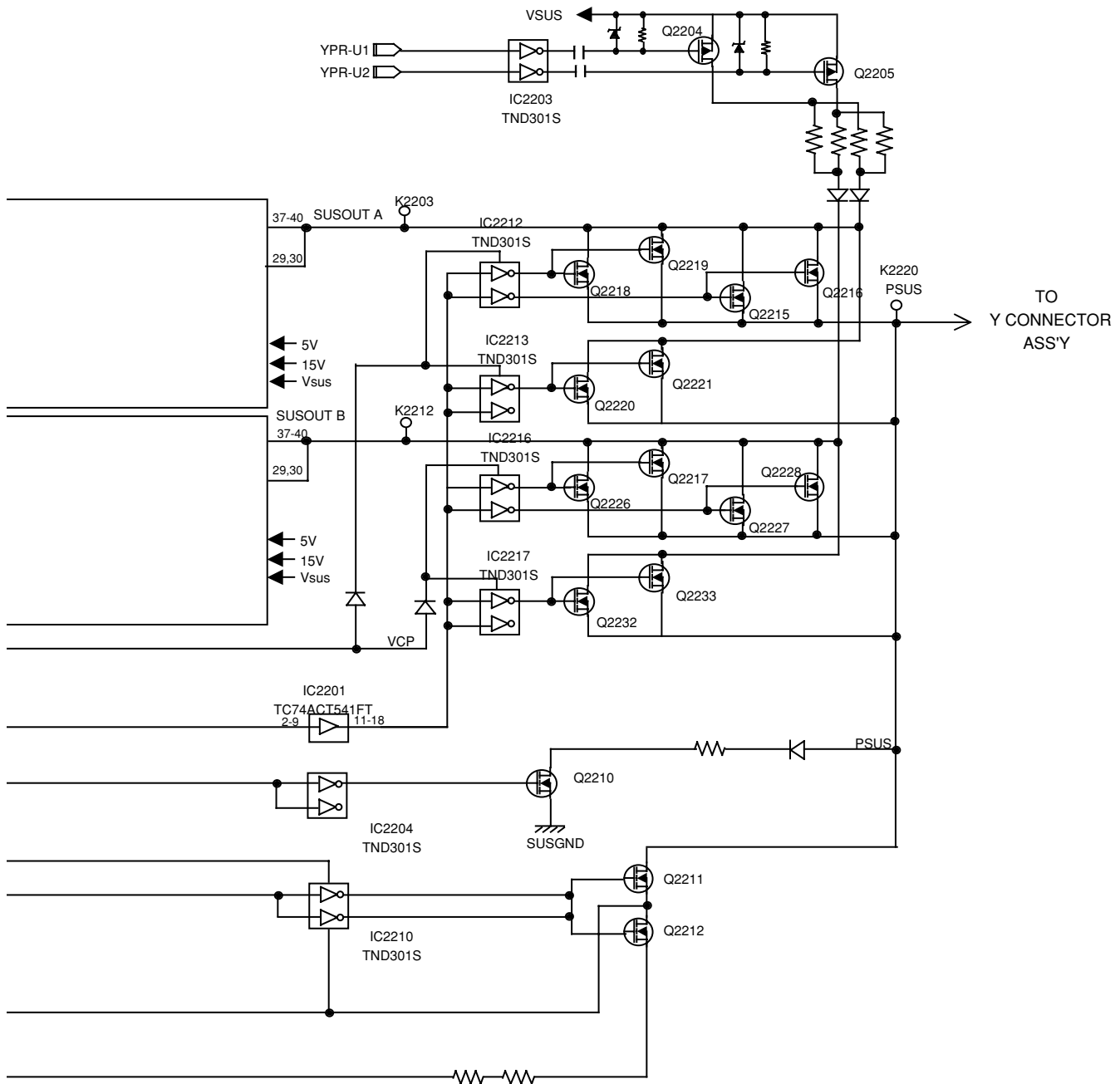
A

B

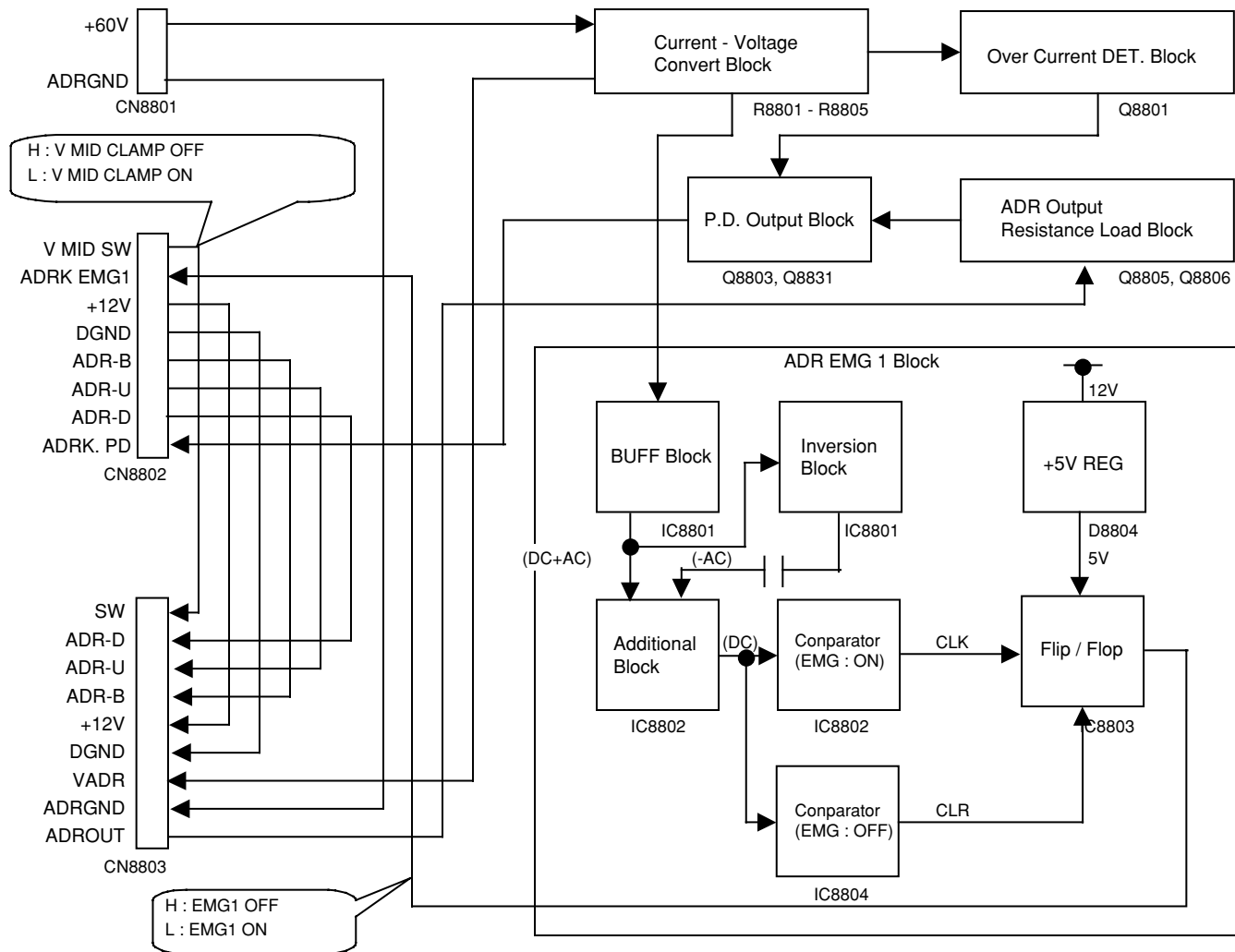
C

D

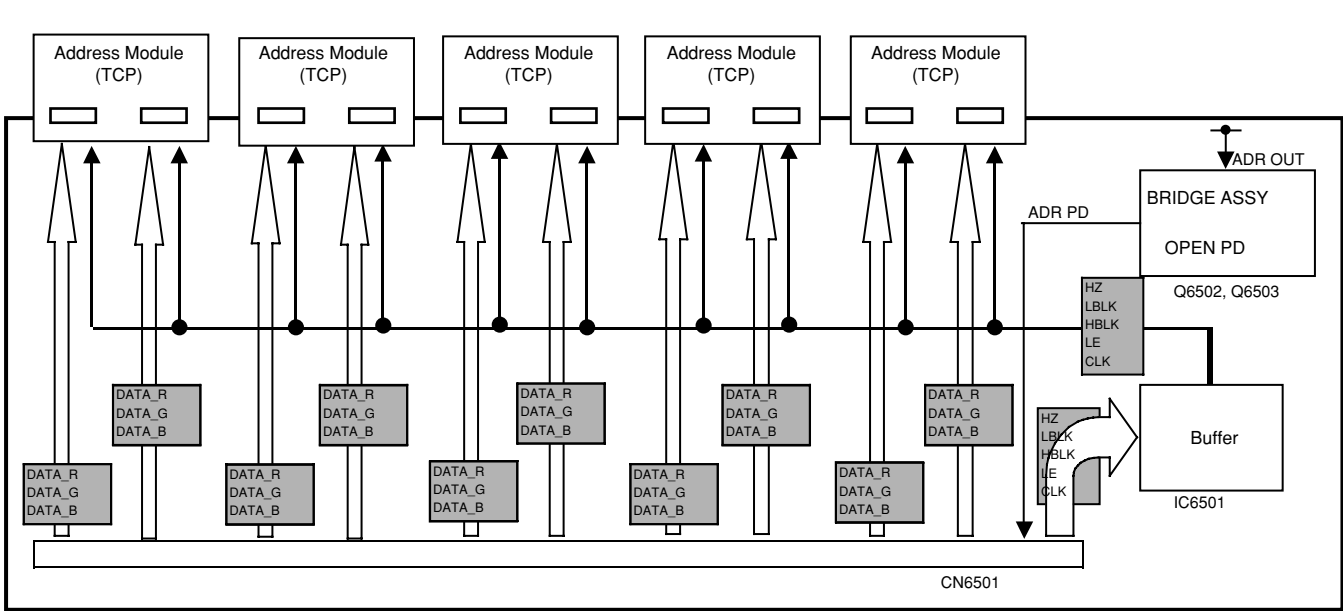




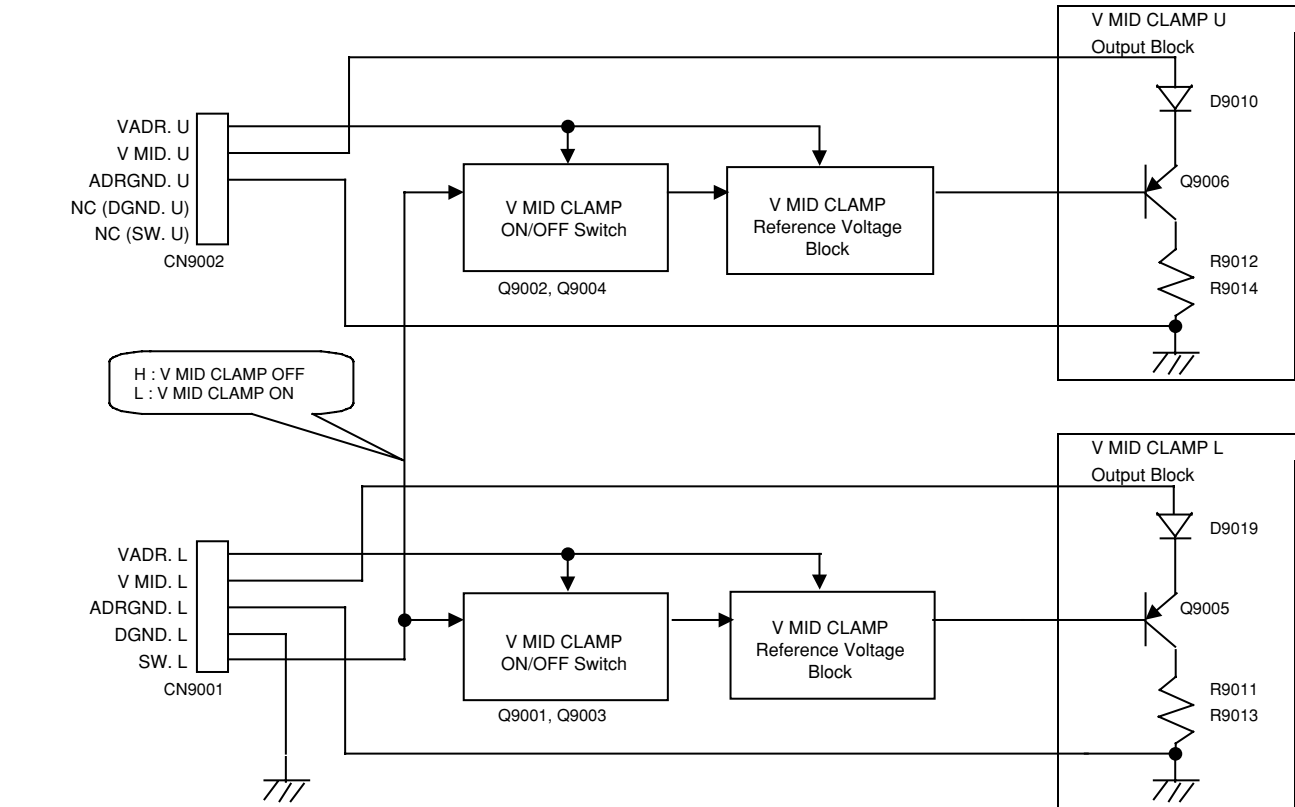
3.1.6 SUB ADDRESS A and B ASSYS



3.1.8 ADR CONNECT A, B, C and D ASSYS



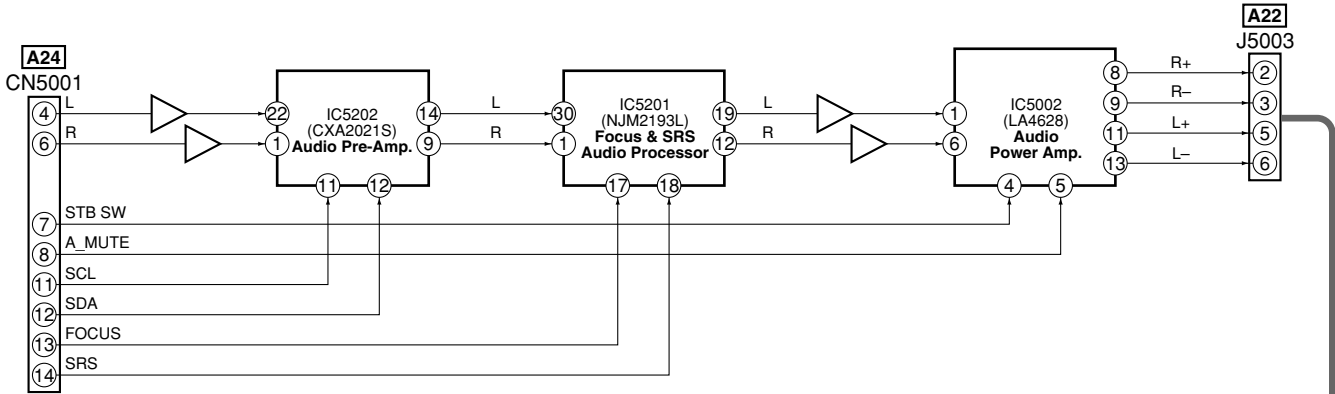
3.1.9 V MID CLAMP ASSY



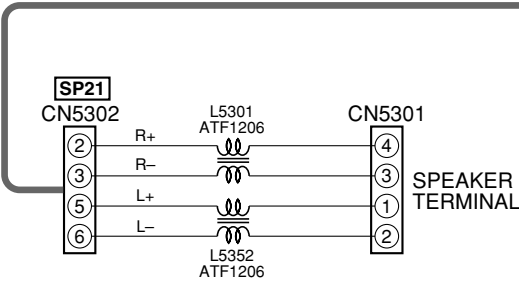
3.1.10 AUDIO AMP and SP TERMINAL ASSYS

AUDIO AMP ASSY

IC5202 (CXA2021S)				IC5201 (NJM2193L)				IC5002 (LA4628)	
No.	Voltage (V)	No.	Voltage (V)	No.	Voltage (V)	No.	Voltage (V)	No.	Voltage (V)
1	5.9	12	5.25	1	5.95	16	11.91	1	1.6
2	0	13	1.73	2	5.94	17	0	2	7.5
3	5.95	14	5.95	3	5.84	18	0	3	0
4	5.94	15	5.92	4	5.98	19	5.98	4	3.37
5	5.98	16	5.91	5	5.98	20	5.91	5	2.29
6	6.02	17	5.93	6	5.97	21	5.97	6	1.6
7	6.02	18	5.92	7	5.98	22	5.98	7	1.97
8	7.38	19	5.94	8	5.98	23	5.98	8	7.3
9	5.95	20	5.95	9	5.98	24	5.98	9	7.3
10	1.55	21	11.91	10	5.97	25	5.97	10	0
11	5.24	22	5.9	11	5.97	26	5.98	11	7.3
				12	5.98	27	5.98	12	0
				13	5.96	28	5.84	13	7.3
				14	5.98	29	5.94	14	15
				15	0	30	5.95		

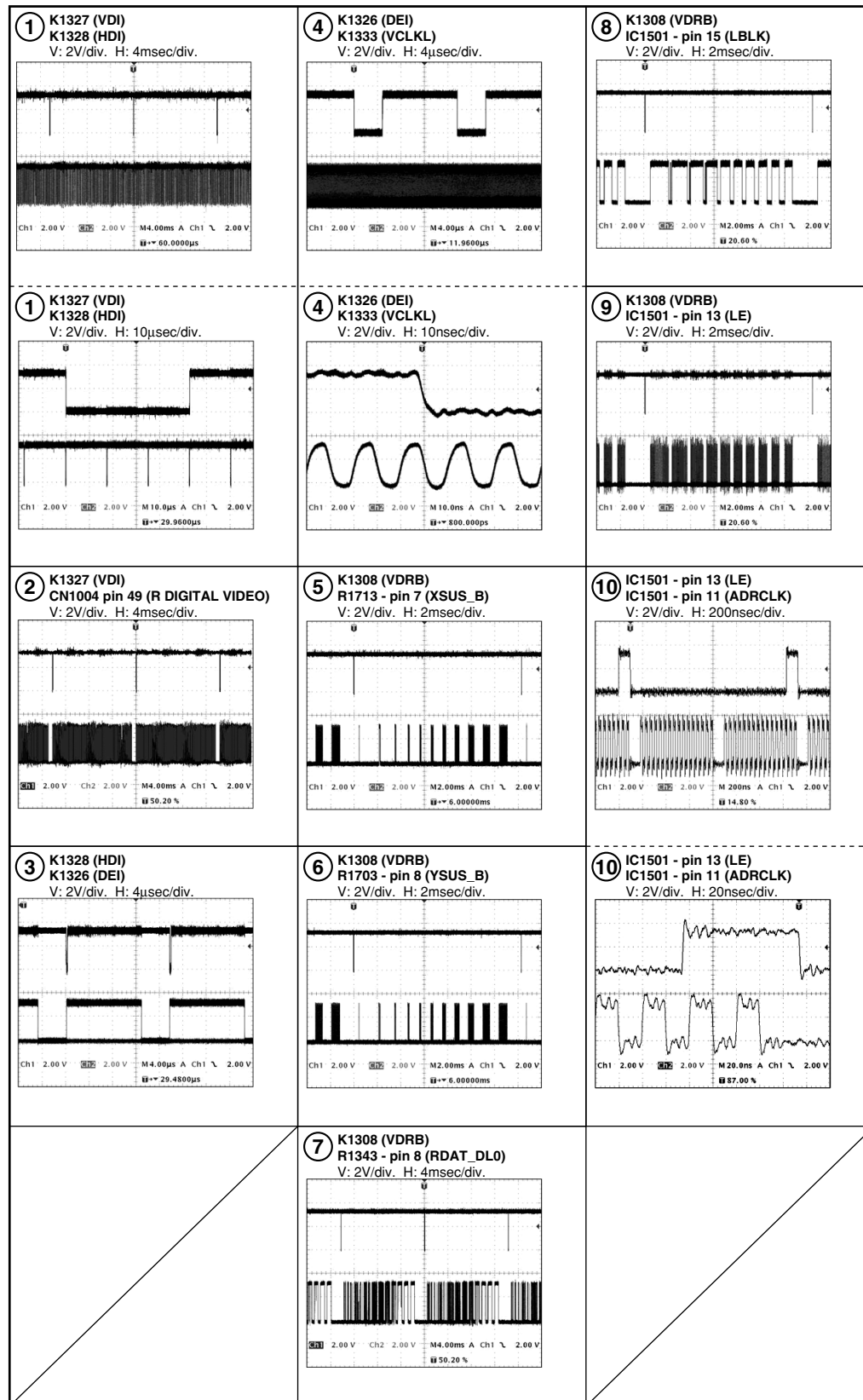


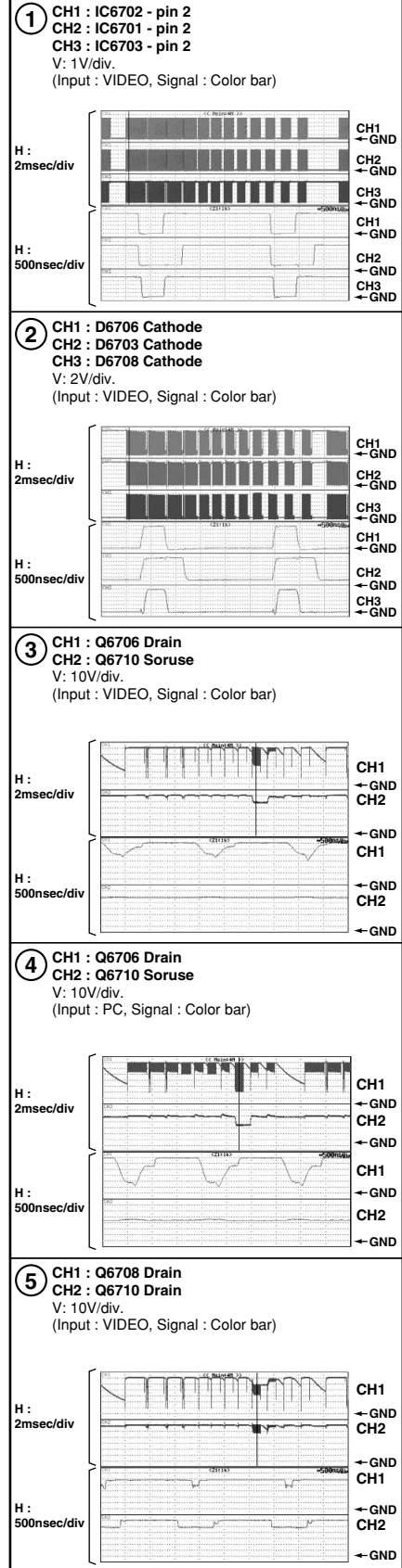
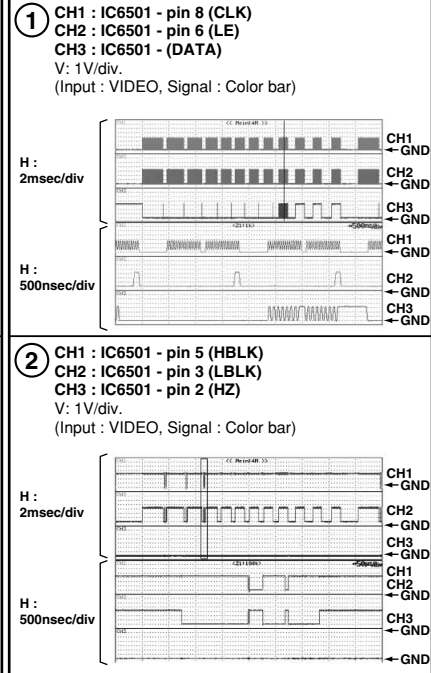
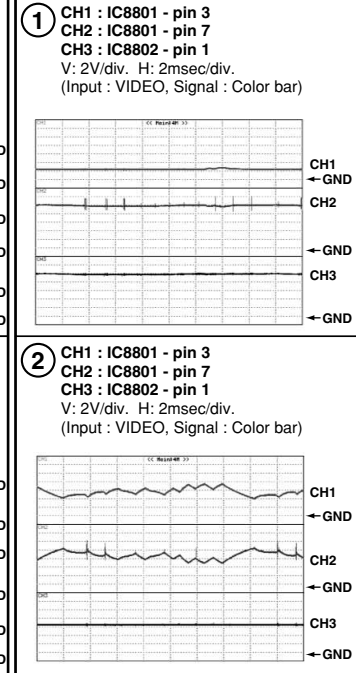
SP TERMINAL ASSY



3.2 WAVEFORMS

DIGITAL VIDEO ASSY



ADR RESONANCE ASSY**ADR CONNECT A - D ASSY****SUB ADDRESS A, B ASSY**

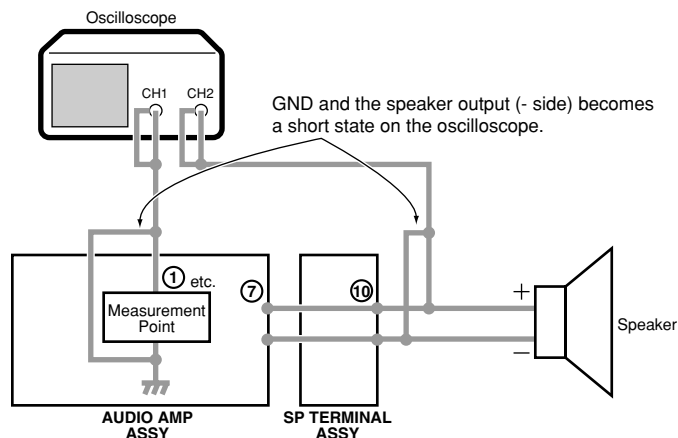
AUDIO SECTION

• Measurement condition

Video Input Signal : FULL FIELD COLOR-BAR
 Audio Input Signal : 1kHz Sine Wave 0.2Vrms
 Volume : 60 (MAX)
 AV Selection : STANDARD
 SRS : OFF
 FOCUS : OFF

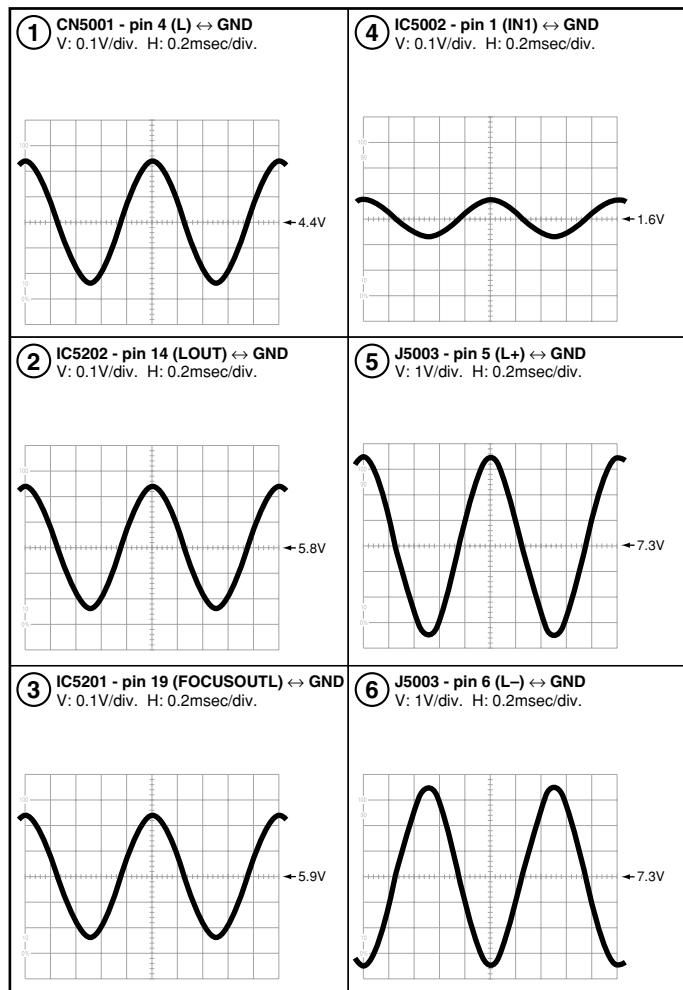
• Caution in the measurement

Audio Power Amp. (IC5002: LA4628) on the AUDIO AMP Assy is BTL system, and, as for the power amplifier and the speaker output, $\pm$ poles becomes hot for the ground. Therefore be careful not to connect the measuring instrument as the following figures. (Power amplifier may be damaged.)

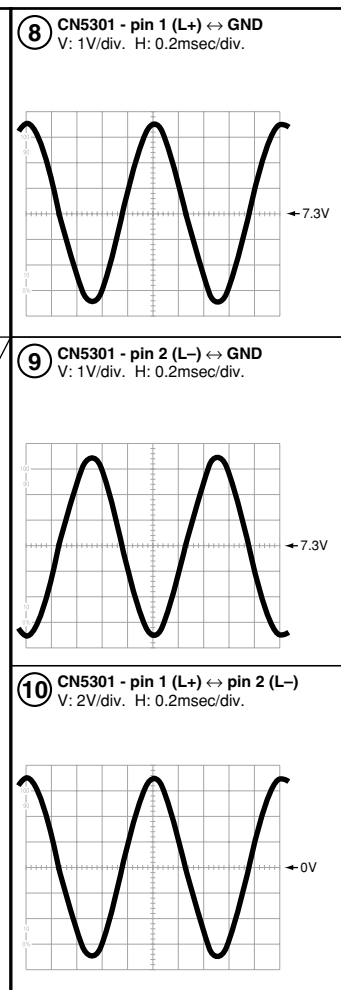


Wrong connection example

AUDIO AMP ASSY



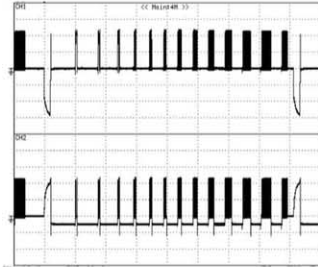
SP TERMINAL ASSY



Sustain Waveforms

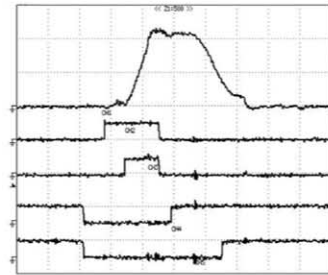
● Sustain Waveform (1 field)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 100V/div. H: 2msec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 2msec/div.



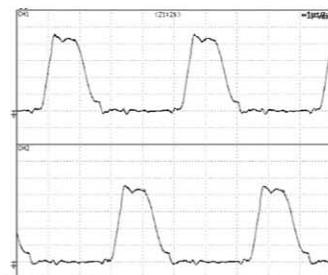
● Sustain Waveform

ch 1 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 500nsec/div.
ch 2 : K2028 (YSUS_U) - K2024 (DGND)
V: 10V/div. H: 500nsec/div.
ch 3 : K2027 (YSUS_B) - K2024 (DGND)
V: 10V/div. H: 500nsec/div.
ch 4 : K2029 (YSUS_D) - K2024 (DGND)
V: 10V/div. H: 500nsec/div.
ch 5 : K2037 (YSUS_G) - K2024 (DGND)
V: 10V/div. H: 500nsec/div.



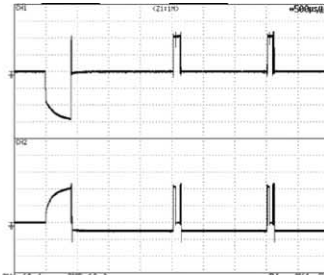
● Sustain Waveform (1 field)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 50V/div. H: 1μsec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 50V/div. H: 1μsec/div.



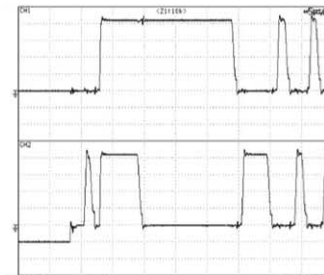
● Sustain Waveform (1 sub-field)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 100V/div. H: 500μsec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 500μsec/div.



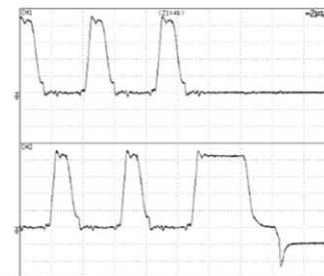
● Sustain Waveform (sustain)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 50V/div. H: 5μsec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 50V/div. H: 5μsec/div.



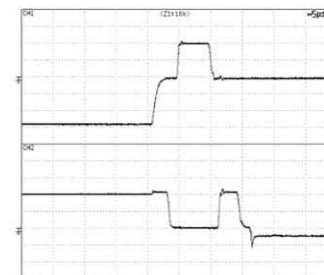
● Sustain Waveform (sustain)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 50V/div. H: 2μsec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 50V/div. H: 2μsec/div.



● Sustain Waveform (reset pulse)

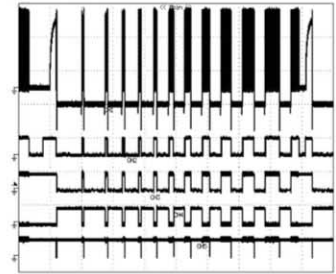
ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 100V/div. H: 5μsec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 5μsec/div.



Drive Pulse Waveforms

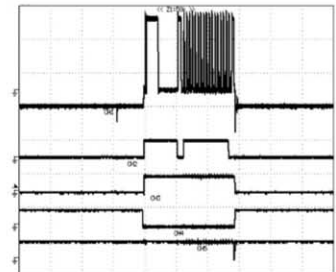
● Y Drive Pulse Control Waveform (1 field)

ch 1 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 2msec/div.
ch 2 : K2039 (YCP_MSK) - K2024 (DGND)
V: 10V/div. H: 2msec/div.
ch 3 : K2040 (YSUS_MSK) - K2024 (DGND)
V: 10V/div. H: 2msec/div.
ch 4 : K2041 (OFS) - K2024 (DGND)
V: 10V/div. H: 2msec/div.
ch 5 : K2053 (SOFT_D) - K2024 (DGND)
V: 10V/div. H: 2msec/div.



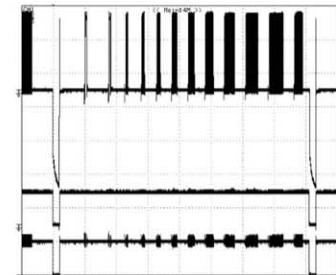
● Y Drive Pulse Control Waveform (1 sub-field)

ch 1 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 50μsec/div.
ch 2 : K2039 (YCP_MSK) - K2024 (DGND)
V: 10V/div. H: 50μsec/div.
ch 3 : K2040 (YSUS_MSK) - K2024 (DGND)
V: 10V/div. H: 50μsec/div.
ch 4 : K2041 (OFS) - K2024 (DGND)
V: 10V/div. H: 50μsec/div.
ch 5 : K2053 (SOFT_D) - K2024 (DGND)
V: 10V/div. H: 50μsec/div.



● X Drive Pulse Control Waveform (1 field)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 100V/div. H: 2msec/div.
ch 2 : K3017 (XCP_MSK) - K3005 (DGND)
V: 10V/div. H: 2msec/div.
ch 3 : K3015 (XSUS_MSK) - K3005 (DGND)
V: 5V/div. H: 2msec/div.



5. PCB PARTS LIST

NOTES: ●Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

●The Δ mark found on some component parts indicates the importance of the safety factor of the part.

Therefore, when replacing, be sure to use parts of identical designation.

●When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω $\rightarrow$ 56×10^1 $\rightarrow$ 561 RD1/4PU $\begin{bmatrix} 5 & 6 & 1 \end{bmatrix}$ J

47k Ω $\rightarrow$ 47×10^3 $\rightarrow$ 473 RD1/4PU $\begin{bmatrix} 4 & 7 & 3 \end{bmatrix}$ J

0.5 Ω $\rightarrow$ R50 RN2H $\begin{bmatrix} R & 5 & 0 \end{bmatrix}$ K

1 Ω $\rightarrow$ 1R0 RS1P $\begin{bmatrix} 1 & R & 0 \end{bmatrix}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω $\rightarrow$ 562×10^1 $\rightarrow$ 5621 RN1/4PC $\begin{bmatrix} 5 & 6 & 2 & 1 \end{bmatrix}$ F

Mark	No.	Description	Part No.
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LIST OF ASSEMBLIES

NSP		SCAN FUKUGO ASSY	AWV1898
NSP	—	SCAN (A) ASSY	AWZ6617
NSP	—	SCAN (B) ASSY	AWZ6616
NSP	—	X CONNECTOR (A) ASSY	AWZ6618
NSP	—	X CONNECTOR (B) ASSY	AWZ6619
NSP	—	BRIDGE A ASSY	AWZ6620
NSP	—	BRIDGE B ASSY	AWZ6621
NSP	—	BRIDGE C ASSY	AWZ6622
NSP	—	BRIDGE D ASSY	AWZ6623
NSP	—	CLAMP A ASSY	AWZ6650
NSP	—	CLAMP B ASSY	AWZ6651
NSP	—	CLAMP C ASSY	AWZ6652
NSP	—	CLAMP D ASSY	AWZ6653

		ADDRESS FUKUGO ASSY	AWV1900
NSP	—	ADR CONNECT A ASSY	AWZ6626
NSP	—	ADR CONNECT B ASSY	AWZ6627
NSP	—	ADR CONNECT C ASSY	AWZ6628
NSP	—	ADR CONNECT D ASSY	AWZ6629
	—	ADR RESONANCE ASSY	AWZ6691

		X DRIVE ASSY	AWV1901
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		HD Y DRIVE ASSY	AWV1925
	—	Y DRIVE ASSY	AWZ6645
	—	SUB ADDRESS A ASSY	AWZ6689
	—	SUB ADDRESS B ASSY	AWZ6690

		DIGITAL VIDEO ASSY	AWV1903
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NSP		HD FUKUGO ASSY	AWV1923
	—	MR INTERFACE ASSY	AWZ6654
	—	LED ASSY	AWZ6655
	—	FRONT KEY ASSY	AWZ6656
	—	FRONT KEY CONN ASSY	AWZ6657
	—	IR (P) ASSY	AWZ6658
	—	THERMAL SENSOR ASSY	AWZ6660

NSP		HD AUDIO ASSY	AWV1935
	—	AUDIO AMP ASSY	AWZ6687
	—	SP TERMINAL ASSY	AWZ6688

		V MID CLAMP ASSY	AWV1934
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Mark	No.	Description	Part No.
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SCAN (A) ASSY

SEMICONDUCTORS

IC6001-IC6006	SN755860PJ
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CAPACITORS

C6001, C6002, C6011, C6012 (0.1 μ F/250V)	ACG1088
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C6021, C6022, C6031, C6032 (0.1 μ F/250V)	ACG1088
--	---------

C6041, C6042, C6051, C6052 (0.1 μ F/250V)	ACG1088
--	---------

C6004, C6005, C6009, C6013, C6015 C6026, C6027, C6038, C6040, C6044 C6048, C6054, C6058, C6059 C6007, C6008, C6014, C6019, C6025 C6028, C6035, C6039, C6046, C6047 C6056, C6057 C6003, C6006, C6017, C6018, C6020	CCSRCH151J50 CCSRCH151J50 CCSRCH151J50 CCSRCH181J50 CCSRCH181J50 CCSRCH181J50 CCSRCH390J50
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C6023, C6024, C6029, C6033, C6034 C6037, C6043, C6045, C6049, C6053 C6055, C6060, C6062-C6066 C6010, C6016, C6030, C6036, C6050 C6061	CCSRCH390J50 CCSRCH390J50 CCSRCH390J50 CKSRYF104Z16 CKSRYF104Z16
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RESISTORS

R6007, R6012, R6021, R6028, R6032 R6040 Other Resistors	RAB4C221J RAB4C221J RS1/16S□□□□
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OTHERS

CN6001 15P CONNECTOR	AKP1218
K6001, K6012, K6018, K6025, K6031 TEST PIN	AKX9002
K6038, K6044 TEST PIN	AKX9002

SCAN (B) ASSY

SEMICONDUCTORS

IC6201-IC6206	SN755860PJ
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CAPACITORS

C6201, C6202, C6212, C6213 (0.1 μ F/250V)	ACG1088
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C6222, C6223, C6232, C6233 (0.1 μ F/250V)	ACG1088
--	---------

C6242, C6243, C6252, C6253 (0.1 μ F/250V)	ACG1088
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Mark	No.	Description	Part No.
	C6203,C6206,C6210,C6215,C6219 C6227,C6229,C6236,C6240,C6244 C6246,C6255,C6259,C6260 C6208,C6209,C6217,C6218,C6226 C6230,C6238,C6239,C6245,C6250		CCSRCH151J50 CCSRCH151J50 CCSRCH151J50 CCSRCH181J50 CCSRCH181J50
	C6257,C6258 C6204,C6205,C6207,C6214,C6216 C6220,C6224,C6225,C6231 C6234,C6235,C6237,C6248,C6249 C6251,C6254,C6256,C6262-C6266		CCSRCH181J50 CCSRCH390J50 CCSRCH390J50 CCSRCH390J50 CCSRCH390J50
	C6211,C6221,C6228,C6241,C6247 C6261		CKSRYF104Z16 CKSRYF104Z16

RESISTORS

R6207,R6209,R6222,R6228,R6232 R6239 Other Resistors	RAB4C221J RAB4C221J RS1/16S□□□□J
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OTHERS

CN6201 15P CONNECTOR K6202,K6212,K6219,K6225,K6231 TEST PIN K6239,K6244 TEST PIN	AKP1218 AKX9002 AKX9002
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X CONNECTOR (A) ASSY**RESISTORS**

All Resistors	RS1/16S□□□□J
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X CONNECTOR (B) ASSY**RESISTORS**

All Resistors	RS1/16S□□□□J
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BRIDGE A ASSY**SEMICONDUCTORS**

D6421,D6422	D1FL20U(S)
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CAPACITORS

C6421,C6422 (0.1μF/100V)	ACG1098
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OTHERS

CN6421 PH CONNECTOR	B4B-PH-SM3
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BRIDGE B ASSY**SEMICONDUCTORS**

D6431,D6432	D1FL20U(S)
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CAPACITORS

C6431,C6432 (0.1μF/100V)	ACG1098
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OTHERS

CN6431 PH CONNECTOR	B4B-PH-SM3
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Mark	No.	Description	Part No.
BRIDGE C ASSY			
SEMICONDUCTORS			
	D6441,D6442		D1FL20U(S)
CAPACITORS			
	C6441,C6442 (0.1μF/100V)		ACG1098
OTHERS			
	CN6441 PH CONNECTOR		B4B-PH-SM3

BRIDGE D ASSY**SEMICONDUCTORS**

D6451,D6452	D1FL20U(S)
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CAPACITORS

C6451,C6452 (0.1μF/100V)	ACG1098
--------------------------	---------

OTHERS

CN6451 PH CONNECTOR	B4B-PH-SM3
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CLAMP A ASSY**SEMICONDUCTORS**

D6461,D6462	D1FL20U(S)
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CAPACITORS

C6461,C6462 (0.1μF/100V)	ACG1098
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OTHERS

CN6461 PH CONNECTOR	B4B-PH-SM3
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CLAMP B ASSY**SEMICONDUCTORS**

D6471,D6472	D1FL20U(S)
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CAPACITORS

C6471,C6472 (0.1μF/100V)	ACG1098
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OTHERS

CN6471 PH CONNECTOR	B4B-PH-SM3
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CLAMP C ASSY**SEMICONDUCTORS**

D6481,D6482	D1FL20U(S)
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CAPACITORS

C6481,C6482 (0.1μF/100V)	ACG1098
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OTHERS

CN6481 PH CONNECTOR	B4B-PH-SM3
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PDP-503PE, PDP-503PU

Mark	No.	Description	Part No.
CLAMP D ASSY			
SEMICONDUCTORS			
	D6491,D6492		D1FL20U(S)
CAPACITORS			
	C6491,C6492 (0.1μF/100V)		ACG1098
OTHERS			
	CN6491 PH CONNECTOR		B4B-PH-SM3

ADR CONNECT A ASSY			
SEMICONDUCTORS			
	IC6501		TC74VHC541FT
	Q6502		2SC2712
	Q6503		2SK209
	D6501		DA227
COILS			
	L6501,L6502 (22μH/0.11A)		ATH1081
CAPACITORS			
	C6511-C6520 (330pF/100V)		ACG1094
	C6531,C6533,C6534 (47μF/6.3V)		ACH1341
	C6536-C6538		CCSRCH121J50
	C6506-C6510,C6521-C6525,C6532		CKSRYF104Z16
	C6535		CKSRYF104Z16

RESISTORS			
	R6518-R6522,R6524,R6526,R6528		RAB4C100J
	R6530,R6531,R6533-R6537,R6539		RAB4C100J
	R6541,R6543,R6545,R6547		RAB4C100J
	R6516		RAB4C473J
	Other Resistors		RS1/16S□□□□J

OTHERS			
	CN6501 55P CONNECTOR		AKM1202

ADR CONNECT B ASSY			
SEMICONDUCTORS			
	IC6601		TC74VHC541FT
	Q6602		2SC2712
	Q6603		2SK209
	D6601		DA227
COILS			
	L6601,L6602 (22μH/0.11A)		ATH1081
CAPACITORS			
	C6611-C6620 (330pF/100V)		ACG1094
	C6631,C6633,C6634 (47μF/6.3V)		ACH1341
	C6636-C6638		CCSRCH121J50
	C6606-C6610,C6621-C6625,C6632		CKSRYF104Z16
	C6635		CKSRYF104Z16

RESISTORS			
	R6618-R6622,R6624,R6626,R6628		RAB4C100J
	R6630,R6631,R6633-R6637,R6639		RAB4C100J
	R6641,R6643,R6645,R6647		RAB4C100J
	R6616		RAB4C473J
	Other Resistors		RS1/16S□□□□J

Mark	No.	Description	Part No.
OTHERS			
	CN6601 55P CONNECTOR		AKM1202
ADR CONNECT C ASSY			
SEMICONDUCTORS			
	IC6801		TC74VHC541FT
	Q6802		2SC2712
	Q6803		2SK209
	D6801		DA227

COILS			
	L6801,L6802 (22μH/0.11A)		ATH1081
CAPACITORS			
	C6811-C6820 (330pF/100V)		ACG1094
	C6831,C6833,C6834 (47μF/6.3V)		ACH1341
	C6836-C6838		CCSRCH121J50
	C6806-C6810,C6821-C6825,C6832		CKSRYF104Z16
	C6835		CKSRYF104Z16

RESISTORS			
	R6818-R6822,R6824,R6826,R6828		RAB4C100J
	R6830,R6831,R6833-R6837,R6839		RAB4C100J
	R6841,R6843,R6845,R6847		RAB4C100J
	R6816		RAB4C473J
	Other Resistors		RS1/16S□□□□J

OTHERS			
	CN6801 55P CONNECTOR		AKM1202

ADR CONNECT D ASSY			
SEMICONDUCTORS			
	IC6901		TC74VHC541FT
	Q6902		2SC2712
	Q6903		2SK209
	D6901		DA227
COILS			
	L6901,L6902 (22μH/0.11A)		ATH1081
CAPACITORS			
	C6911-C6920 (330pF/100V)		ACG1094
	C6931,C6933,C6934 (47μF/6.3V)		ACH1341
	C6936-C6938		CCSRCH121J50
	C6906-C6910,C6921-C6925,C6932		CKSRYF104Z16
	C6935		CKSRYF104Z16

RESISTORS			
	R6918-R6922,R6924,R6926,R6928		RAB4C100J
	R6930,R6931,R6933-R6937,R6939		RAB4C100J
	R6941,R6943,R6945,R6947		RAB4C100J
	R6916		RAB4C473J
	Other Resistors		RS1/16S□□□□J

OTHERS			
	CN6901 55P CONNECTOR		AKM1202

Mark	No.	Description	Part No.
ADR RESONANCE ASSY			
SEMICONDUCTORS			
△	IC6704 (1A/50V)	ICP-S1.0	
	IC6701-IC6703	TND301S	
	Q6704,Q6705,Q6712	2SB1132	
	Q6701-Q6703	2SD1664	
	Q6710,Q6711	FS30ASJ-2	
	Q6706-Q6709	FX20ASJ-2	
	D6701,D6703,D6704,D6706	1SS355	
	D6709,D6710,D6717,D6718	D1FL20U(S)	
	D6711-D6714	SPX-62S	
	D6702,D6705,D6716	UDZ15B	
COIL			
	L6704	CHOKO COIL	ATH1111
CAPACITORS			
	C6716,C6718 (1.00F)	ACE1159	
	C6720,C6721 (0.01μF/100V)	ACG1101	
	C6722 (0.0068F/100V)	ACG1102	
	C6703-C6708 (56μF/80V)	ACH1347	
	C6702,C6709	CEHV101M16	
	C6701	CEHV470M16	
	C6710,C6711,C6713	CKSRYF104Z16	
RESISTORS			
	All Resistors	RS1/16S□□□□	
OTHERS			
	CN6701	23P CONNECTOR	AKP1221
	CN6702	PH CONNECTOR	B4B-PH-SM3
	CN6703	PH CONNECTOR	B5B-PH-SM3
X DRIVE ASSY			
[X LOGIC BLOCK]			
SEMICONDUCTORS			
	IC3003	PE1012A	
	IC3004	TC74ACT540FT	
	IC3001,IC3008	TC74ACT541FT	
COIL			
	L3001	LFEA100J	
CAPACITORS			
	C3005	CEHAT470M16	
	C3001,C3003,C3004,C3006	CKSRYF104Z50	
RESISTORS			
	R3009-R3012	RAB4C0R0J	
	R3001,R3003,R3026,R3029	RAB4C470J	
	R3002,R3005,R3030,R3033	RAB4C472J	
	Other Resistors	RS1/16S□□□□	
OTHERS			
	K3001,K3003,K3004,K3008,K3010	AKX9002	
	TEST PIN		
	K3012-K3015,K3017,K3018	AKX9002	
	TEST PIN		
	CN3001	30P CONNECTOR	KF050HA30L

Mark	No.	Description	Part No.
[X SUS BLOCK]			
SEMICONDUCTORS			
	IC3102	HCPL-M611	
	IC3200,IC3201	STK795-460	
	IC3101	TC74ACT541FT	
	IC3103,IC3104,IC3106,IC3107	TND301S	
	IC3110,IC3113	TND301S	
	IC3109	UPC78L05T	
	Q3117	2SJ181L	
	Q3116,Q3119,Q3120	2SJ522	
	Q3101	2SK2503	
	Q3103-Q3107,Q3109-Q3115	FS16VS-9	
	Q3124-Q3127	FS16VS-9	
	Q3123	FS2AS-14A	
	Q3122,Q3128	FS7VS-14A	
	Q3102,Q3118	HN1B04FU	
	D3119	1SS184	
	D3108,D3124,D3125,D3130,D3133	1SS355	
	D3101,D3102,D3117,D3126,D3131	D1FL40	
	D3200,D3202,D3203,D3205	D1FL40	
	D3207,D3208,D3210-D3215	D1FL40	
	D3120,D3127-D3129,D3135,D3136	UDZ15B	
COILS			
	L3206,L3207	ATH1112	
	RADIAL LEAD INDUCTOR		
	L3201,L3204	CHOKO COIL	ATH1117
	L3202,L3205,L3210,L3211	CHOKO COIL	ATH1118
	L3101	LFEA100J	
	L3107,L3108	LFEA101J	
	L3103	LFEA470J	
CAPACITORS			
	C3205,C3206,C3212,C3213 (1.5μF)	ACE1160	
	C3225,C3226 (1.5μF)	ACE1160	
	C3131,C3139,C3143 (0.1μF/630V)	ACG1092	
	C3223,C3224 (100pF/500V)	ACG1100	
	C3132 (47μF/350V)	ACH1346	
	C3200-C3202,C3207-C3209	ACH1348	
	(330μF/315V)		
	C3214-C3221	CCSRCH331J50	
	C3112,C3133,C3203,C3210	CEHAT101M16	
	C3102,C3107,C3115,C3204,C3211	CEHAT101M25	
	C3101	CEHAT221M25	
	C3104,C3106,C3134,C3141	CEHAT470M16	
	C3135	CEHAT470M25	
	C3103,C3105,C3108,C3109,C3111	CKSRYF104Z50	
	C3113,C3114,C3117,C3130,C3140	CKSRYF104Z50	
	C3147	CKSRYF104Z50	
RESISTORS			
	R3183,R3184,R3187 (15Ω)	ACN1156	
	R3113,R3114,R3121,R3122,R3126	RAB4C100J	
	R3132,R3140,R3141	RAB4C100J	
	R3212,R3217,R3230,R3234,R3237	RS1/10S184J	
	R3240,R3242,R3245	RS1/10S184J	
	R3250-R3253	RS1/16S3300F	
	R3134,R3163	RS1/2S100J	
	R3103	RS1/2S102J	
	R3109	RS1/2S2R2J	
	R3102	RS1/2S561J	

PDP-503PE, PDP-503PU

Mark	No.	Description	Part No.
	R3215,R3216		RS1MMF101J
	R3228,R3229		RS1MMF102J
	R3202,R3203		RS1MMF563J
	R3178,R3179		RS2MMF121J
	VR3200-VR3203 (1kΩ)		ACP1089

Other Resistors RS1/16S□□□J

OTHERS

	SPACER	AEH1049
K3102-K3104	TEST PIN	AKX9002
KN3105-KN3114	GROUND PLATE	ANK-142
CN3101	13P PLUG	KM250MA13
CN3102	3P PLUG	KM250MA3

[X DD CON BLOCK]

SEMICONDUCTORS

IC3712	AN1431M
IC3701	MIP161
IC3702-IC3704	TLP181(GR)
Q3701	2SC2712
Q3800	HN1A01FU

D3710,D3711	1SS355
D3705,D3706	D1FL20U(S)
D3702	EC8FS6
D3708,D3709,D3713	RD110P
D3703	UDZ18B

D3707 UDZS5.6B

COIL

L3701 RADIAL LEAD INDUCTOR ATH1110

TRANSFORMER

T3701 ATK1153

CAPACITORS

C3701 (22μF/315V)	ACH1345
C3717 (47μF/350V)	ACH1346
C3704	CEHAT101M16
C3706,C3711,C3714	CEHAT101M25
C3712	CEHAT331M16

C3705	CKSQYF104Z50
C3703,C3707,C3708,C3710	CKSRYB104K16
C3715,C3716	CKSRYB104K16

RESISTORS

R3732	RS1/16S1001F
R3806	RS1/16S1802F
R3701-R3704,R3706-R3717	RS1/16S1803F
R3805	RS1/16S2702F
R3731	RS1/16S3900F

R3802	RS1/16S5601F
R3738,R3739	RS1/2S102J
R3800,R3801	RS1/2S823J
VR3701 (1kΩ)	ACP1089
Other Resistors	RS1/16S□□□J

Mark	No.	Description	Part No.
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Y DRIVE ASSY

[Y DRIVE LOGIC BLOCK]

SEMICONDUCTORS

IC2006	PE1013B
IC2007	TC74ACT540FT
IC2001,IC2003-IC2005	TC74ACT541FT
Q2121	2SK2201
Q2101,Q2102	HN1C01FU

D2101 1SS355

COIL

L2001 LFEA100J

CAPACITORS

C2101	CEHAT100M50
C2103	CEHAT1R0M50
C2003	CEHAT470M16
C2001,C2004,C2005,C2007,C2008	CKSRYF104Z50
C2010,C2102,C2104,C2121	CKSRYF104Z50

RESISTORS

R2015-R2018	RAB4C0R0J
R2001,R2002,R2005,R2011	RAB4C470J
R2037,R2038	RAB4C470J
R2035,R2036,R2039,R2040	RAB4C472J
Other Resistors	RS1/16S□□□J

OTHERS

CN2001	50P CONNECTOR	AKM1201
K2001-K2005,K2009,K2010,K2013	TEST PIN	AKX9002
K2021,K2027-K2029,K2037	TEST PIN	AKX9002

K2039-K2041,K2053	TEST PIN	AKX9002
2101	SENSOR	AXX1057
	SCREW	BMZ20P040FMC
	NUT	NB20FMC

[Y DRIVE SUS BLOCK]

SEMICONDUCTORS

IC2202,IC2208	HCPL-M611
IC2206,IC2214	STK795-460
IC2201	TC74ACT541FT
IC2203,IC2204,IC2210,IC2212	TND301S
IC2213,IC2216,IC2217	TND301S

IC2205,IC2209	UPC78L05T
Q2203-Q2205	2SJ522
Q2201	2SK2503
Q2215-Q2221,Q2226-Q2228	FQB34N20
Q2232,Q2233	FQB34N20

Q2210-Q2212	FS16VS-9
Q2209	HN1B04FU
D2225	1SS184
D2202,D2204	1SS226
D2211	1SS355

D2201,D2203,D2205,D2208,D2210	D1FL40
D2212,D2214-D2216,D2221-D2223	D1FL40
D2226-D2228,D2239,D2243	D1FL40
D2209	DF20L60
D2206,D2207	UDZ15B

Mark	No.	Description	Part No.
COILS			
	L2207	RADIAL LEAD INDUCTOR	ATH1110
	L2213,L2214		ATH1112
		RADIAL LEAD INDUCTOR	
	L2206,L2211	CHOKE COIL	ATH1117
	L2208,L2212,L2215,L2216		ATH1118
		CHOKE COIL	
	L2210		LFEA100J
	L2203,L2205		LFEA101J
	L2201,L2204		LFEA470J
CAPACITORS			
	C2228,C2230,C2231,C2250-C2252		ACE1160
	(1.5μF)		
	C2209,C2210 (0.1μF/630V)		ACG1092
	C2233,C2248 (100pF/500V)		ACG1100
	C2211 (47μF/350V)		ACH1346
	C2216,C2217,C2219,C2234-C2236		ACH1348
	(330μF/315V)		
	C2253-C2260		CCSRCH331J50
	C2221,C2225,C2226,C2246		CEHAT101M16
	C2204,C2227,C2237,C2240,C2247		CEHAT101M25
	C2202		CEHAT221M25
	C2232		CEHAT331M2A
	C2218,C2224,C2229		CEHAT470M16
	C2212,C2214		CEHAT470M25
	C2201,C2203,C2205,C2208,C2213		CKSRYF104Z50
	C2220,C2222,C2223,C2238,C2239		CKSRYF104Z50
	C2241,C2242		CKSRYF104Z50
RESISTORS			
	R2235,R2273,R2291,R2305,R2315		RAB4C100J
	R2317,R2342		RAB4C100J
	R2253,R2256,R2270,R2283,R2332		RS1/10S184J
	R2338,R2354,R2355		RS1/10S184J
	R2358-R2361		RS1/16S3300F
	R2263,R2264		RS1/2S100J
	R2203		RS1/2S102J
	R2209		RS1/2S2R2J
	R2202		RS1/2S561J
	R2278,R2303		RS1MMF101J
	R2233,R2234		RS1MMF102J
	R2274,R2275		RS1MMF221J
	R2298,R2299		RS2MMF4R7J
	R2277		RS3LMFR47J
	R2276		RS3LMFR56J
	VR2201-VR2204 (1kΩ)		ACP1089
	Other Resistors		RS1/16S□□□J
OTHERS			
	SPACER		AEH1049
	K2211,K2214-K2217 TEST PIN		AKX9002
	KN2201-KN2210 GROUND PLATE		ANK-142
	CN2201 15P PLUG		KM250MA15
	CN2202 3P PLUG		KM250MA3

Mark	No.	Description	Part No.
[Y DRIVE SCAN BLOCK]			
SEMICONDUCTORS			
	IC2501,IC2502,IC2505,IC2510		HCPL-M611
	IC2512-IC2514,IC2516,IC2525		HCPL-M611
	IC2503,IC2504,IC2506		TC74ACT540FT
COILS			
	L2501-L2503		LFEA100J
CAPACITORS			
	C2506,C2527		CEHAT220M2D
	C2502		CEHAT221M16
	C2524,C2525		CEHAT470M16
	C2501,C2503-C2505,C2507,C2508		CKSRYF104Z50
	C2513,C2515-C2517,C2519,C2530		CKSRYF104Z50
RESISTORS			
	R2502,R2504		RAB4C101J
	Other Resistors		RS1/16S□□□J
OTHERS			
	CN2501,CN2502		AKM1200
	15P CONNECTOR		
[Y DRIVE DD-CON BLOCK]			
SEMICONDUCTORS			
	IC2715-IC2717		AN1431M
	IC2709		HCNR201
	IC2708,IC2710,IC2718		M5223AFP
	IC2711		MIP0223SC
	IC2701		MIP161
	IC2704		MIP301
	IC2702,IC2703,IC2705-IC2707		TLP181(GR)
	IC2712-IC2714		TLP181(GR)
	Q2701,Q2703		2SC2712
	Q2704		HN1A01FU
	D2712,D2717,D2718,D2732,D2734		1SS355
	D2736,D2737		1SS355
	D2704,D2706,D2707,D2715,D2726		D1FL20U(S)
	D2728		D1FL20U(S)
	D2702,D2714,D2727		D1FL40
	D2711		D1FS4
	D2725		EC8FS6
	D2733		RD110P
	D2724		U1ZB330
	D2713		U1ZB36
	D2740		UDZ12B
	D2709,D2716		UDZ3.6B
	D2729,D2731		UDZ33B
	D2703,D2710		UDZ36B
	D2720,D2730,D2739		UDZS5.6B
COIL			
	L2701	RADIAL LEAD INDUCTOR	ATH1110
TRANSFORMERS			
	T 2702		ATK1150
	T 2703		ATK1151
	T 2701		ATK1152

PDP-503PE, PDP-503PU

Mark	No.	Description	Part No.
CAPACITORS			
	C2701,C2735 (22μF/315V)	ACH1345	
	C2706,C2725,C2737	CEHAT101M16	
	C2709,C2718,C2720,C2739,C2745	CEHAT101M25	
	C2708	CEHAT101M2A	
	C2740	CEHAT101M2C	
	C2704	CEHAT221M25	
	C2715	CEHAT331M16	
	C2746	CEHAT331M25	
	C2723,C2751	CEHAT470M16	
	C2712	CEHAT471M35	
	C2711	CKSRYB103K50	
	C2705,C2713,C2714,C2719	CKSRYB104K16	
	C2721,C2722,C2724,C2727,C2729	CKSRYB104K16	
	C2731,C2733,C2736,C2742,C2743	CKSRYB104K16	
	C2747-C2749	CKSRYB104K16	
	C2728,C2730	CKSRYB471K50	
	C2707,C2738	CKSRYF104Z50	

RESISTORS			
	R2735,R2791	RS1/16S1000F	
	R2780	RS1/16S1103F	
	R2715,R2728,R2733	RS1/16S1201F	
	R2787	RS1/16S1302F	
	R2766	RS1/16S1501F	
	R2785	RS1/16S1503F	
	R2777,R2786	RS1/16S1802F	
	R2776	RS1/16S2702F	
	R2705,R2706,R2709,R2710,R2778	RS1/16S3002F	
	R2781	RS1/16S3002F	
	R2783	RS1/16S4701F	
	R2734,R2736	RS1/16S4702F	
	R2779	RS1/16S5102F	
	R2773	RS1/16S5601F	
	R2784	RS1/16S5602F	
	R2782	RS1/16S6801F	
	R2744-R2746,R2748-R2753	RS1/16S9102F	
	R2711,R2716,R2767,R2770	RS1/2S102J	
	R2788,R2792	RS1/2S561J	
	R2771,R2772	RS1/2S823J	
	R2712	RS3LMF272J	
	VR2702,VR2703 (1kΩ)	ACP1089	
	VR2701 (2.2kΩ)	ACP1090	
	Other Resistors	RS1/16S□□□□	

SUB ADDRESS A ASSY

SEMICONDUCTORS			
	IC8801,IC8802,IC8804	M5223AFP	
	IC8803	TC74VHC74FT	
	Q8801,Q8802	2SA1163	
	Q8803-Q8805,Q8808	2SC2712	
	Q8806	2SK209	
	D8801-D8803,D8809	1SS355	
	D8806,D8807	DA227	
	D8808	UDZ27B	
	D8804	UDZS5.1B	

COILS

L8801	CHOKE COIL (100μH/0.45A)	ATH1074
L8802,L8803	COIL (22μH/0.11A)	ATH1081

Mark	No.	Description	Part No.
CAPACITORS			
	C8806	CCSRCH101J50	
	C8822	CEHV100M16	
	C8804	CEHV100M35	
	C8801,C8808	CEHV470M16	
	C8807	CEVNP2R2M35	
	C8802,C8803,C8805,C8809-C8817	CKSRYF104Z16	
	C8820,C8821	CKSRYF104Z16	
RESISTORS			
	R8806,R8807,R8837,R8838,R8841	RS1/16S1002D	
	R8858	RS1/16S1202D	
	R8864	RS1/16S1802F	
	R8828,R8829,R8846	RS1/16S2202D	
	R8826,R8827,R8839,R8840	RS1/16S4701D	
	R8833,R8859	RS1/16S4702F	
	R8832	RS1/16S5602F	
	R8801,R8802	RS1/2S1R5J	
	R8803-R8805	RS1/2S2R2J	
	Other Resistors	RS1/16S□□□□	

OTHERS

CN8803	23P CONNECTOR	AKM1205
CN8801	PH CONNECTOR	S3B-PH-SM3
CN8802	PH CONNECTOR	S8B-PH-SM3

SUB ADDRESS B ASSY

SEMICONDUCTORS			
	IC8901,IC8902,IC8904	M5223AFP	
	IC8903	TC74VHC74FT	
	Q8901,Q8902	2SA1163	
	Q8903-Q8905,Q8908	2SC2712	
	Q8906	2SK209	
	D8901-D8903,D8909	1SS355	
	D8906,D8907	DA227	
	D8908	UDZ27B	
	D8904	UDZS5.1B	

COILS

L8901	CHOKE COIL (100μH/0.45A)	ATH1074
L8902,L8903	COIL (22μH/0.11A)	ATH1081

CAPACITORS

C8906	CCSRCH101J50
C8922	CEHV100M16
C8904	CEHV100M35
C8901,C8908	CEHV470M16
C8907	CEVNP2R2M35

C8902,C8903,C8905,C8909-C8917	CKSRYF104Z16
C8920,C8921	CKSRYF104Z16

RESISTORS

R8906,R8907,R8937,R8938,R8941	RS1/16S1002D
R8958	RS1/16S1202D
R8964	RS1/16S1802F
R8928,R8929,R8946	RS1/16S2202D
R8926,R8927,R8939,R8940	RS1/16S4701D

R8933,R8959	RS1/16S4702F
R8932	RS1/16S5602F
R8901,R8902	RS1/2S1R5J
R8903-R8905	RS1/2S2R2J
Other Resistors	RS1/16S□□□□

Mark	No.	Description	Part No.
OTHERS			
	CN8903	23P CONNECTOR	AKM1205
	CN8901	PH CONNECTOR	S3B-PH-SM3
	CN8902	PH CONNECTOR	S8B-PH-SM3
DIGITAL VIDEO ASSY			
[INTERFACE BLOCK]			
SEMICONDUCTORS			
	IC1001-IC1008		TC74VHC541FT
FILTERS			
	F1001-F1006	EMI FILTER	ATF1194
CAPACITORS			
	C1001-C1008		CKSRYF104Z16
RESISTORS			
	R1044		RAB4C101J
	R1001-R1007,R1036,R1063-R1069		RAB4C103J
	R1008-R1017,R1019,R1020,R1027		RAB4C470J
	R1032,R1034,R1035,R1037,R1038		RAB4C470J
	R1040-R1043,R1048,R1049		RAB4C470J
	R1051-R1054		RAB4C470J
	Other Resistors		RS1/16S□□□□
OTHERS			
	CN1003,CN1004		AKM1201
		50P CONNECTOR	
	K1001	TEST PIN	AKX9002
	CN1001	PH CONNECTOR	B12B-PH-SM3
[PANEL UCOM BLOCK]			
SEMICONDUCTORS			
	IC1101		HD64F2328VF
	IC1103		NC7SZ08P5
	IC1102		PST9228N
	Q1101,Q1103		DTC143EK
	D1101		AEL1171
CAPACITORS			
	C1123,C1124		CCSRCH7R0D50
	C1101		CEV101M4
	C1102,C1109,C1110,C1112-C1116		CKSRYB102K50
	C1129-C1132		CKSRYB102K50
	C1117,C1121		CKSRYB103K50
	C1120		CKSRYB472K50
	C1103-C1108,C1111,C1118,C1119		CKSRYF104Z16
	C1122,C1125-C1128		CKSRYF104Z16
RESISTORS			
	R1104,R1107,R1110,R1113,R1114		RAB4C472J
	R1116,R1121,R1124,R1127,R1129		RAB4C472J
	R1128		RD1/4PU473J
	Other Resistors		RS1/16S□□□□
OTHERS			
	K1101-K1104,K1107,K1108		AKX9002
		TEST PIN	
	X1101	CERAMIC RESONATOR ASS1160 (25MHz)	

Mark	No.	Description	Part No.
[MODULE UCOM BLOCK]			
SEMICONDUCTORS			
	IC1204		24LC04B(I)SN
	IC1208		PST9246N
	IC1202		TC74VHC08FT
	IC1201		TC74VHC21FT
	IC1205		TC74VHC541FT
	IC1203		TC74VHCT541AFT
	IC1206		TC7W126FU
	D1201,D1202		1SS355
CAPACITORS			
	C1213,C1243-C1245		CCSRCH470J50
	C1235,C1236		CCSRCH7R0D50
	C1225,C1232		CEV470M6R3
	C1201-C1203,C1206-C1211		CKSRYB102K50
	C1214-C1216,C1218,C1219		CKSRYB102K50
	C1223,C1224,C1226,C1227,C1229		CKSRYB102K50
	C1237,C1238,C1241,C1242,C1247		CKSRYB102K50
	C1234		CKSRYB103K50
	C1233		CKSRYB472K50
	C1204,C1205,C1212,C1217		CKSRYF104Z16
	C1221,C1222,C1228,C1230,C1231		CKSRYF104Z16
	C1239,C1240,C1246,C1248-C1250		CKSRYF104Z16
RESISTORS			
	R1209,R1214,R1245		RAB4C101J
	R1242		RAB4C103J
	R1207		RAB4C123J
	R1213,R1216		RAB4C473J
	Other Resistors		RS1/16S□□□□
OTHERS			
	X1201	CERAMIC RESONATOR ASS1159 (16MHz)	
	CN1203	PH CONNECTOR	B3B-PH-SM3
	CN1201,CN1202	8P PLUG	CKS3130
[DIGITAL BLOCK]			
SEMICONDUCTORS			
	IC1802		FS781BZB
	IC1704		NC7SZ08P5
	IC1301,IC1401		PD6358A
	IC1703		PE5064A
	IC1501,IC1502,IC1601,IC1602		TC74VCX541FT
	IC1702,IC1801		TC74VHC541FT
	IC1803		TC74VHC74FT
	IC1701		TC74VHCT541AFT
	D1301-D1305		1SS226
FILTERS			
	F1301-F1304,F1501-F1505		ATF1194
		EMI FILTER	
	F1601-F1605	EMI FILTER	ATF1194
CAPACITORS			
	C1807		CCSRCH271J50
	C1802		CEV100M16
	C1306,C1322,C1406,C1422,C1711		CEV101M4
	C1806		CEV101M4
	C1504-C1508,C1604-C1608,C1712		CKSRYB102K50

PDP-503PE, PDP-503PU

Mark	No.	Description	Part No.
	C1303-C1305,C1307-C1321		CKSRYF104Z16
	C1323-C1336,C1403-C1405		CKSRYF104Z16
	C1407-C1421,C1423-C1436,C1501		CKSRYF104Z16
	C1503,C1601,C1603,C1701-C1710		CKSRYF104Z16
	C1713,C1803-C1805		CKSRYF104Z16

RESISTORS

R1502,R1517,R1606,R1622	RAB4C101J
R1307,R1310-R1315,R1317,R1318	RAB4C220J
R1321,R1322,R1326-R1344,R1407	RAB4C220J
R1410-R1415,R1417,R1418	RAB4C220J
R1421,R1422,R1426-R1444	RAB4C220J
R1501,R1514,R1607,R1627,R1701	RAB4C470J
R1703-R1709,R1712-R1717	RAB4C470J
R1551,R1552	RS1/2S680J
Other Resistors	RS1/16S□□□□J

OTHERS

CN1701 50P CONNECTOR	AKM1201
CN1501,CN1502,CN1504,CN1505	AKM1202
55P CONNECTOR	
CN1601,CN1602,CN1604,CN1605	AKM1202
55P CONNECTOR	
K1301,K1302,K1308,K1311-K1314	AKX9002
TEST PIN	
K1316,K1321,K1324,K1326-K1331	AKX9002
TEST PIN	
K1333,K1501,K1502,K1601,K1602	AKX9002
TEST PIN	
K1728,K1729 TEST PIN	AKX9002
X1801 CRYSTAL RESONATOR ASS1146	
(50.000MHz)	
CN1503,CN1603 PH CONNECTOR	B8B-PH-SM3
CN1301 8P PLUG	CKS3130
CN1702 30P CONNECTOR	KF050HA30L

[D-D CONVERTER BLOCK]

SEMICONDUCTORS

Q1902,Q1905,Q1907	2SC2712
Q1903	DTC143EK
Q1901,Q1904,Q1906	HN1C01FU
D1903-D1906,D1911,D1912	1SS355
D1908	HZU2.2B
D1902,D1909	UDZ3.6B
D1907	UDZS5.1B
D1901	UDZS6.8B

CAPACITORS

C1904,C1906,C1912	CEV220M16
C1901-C1903,C1905,C1907-C1911	CKSRYF104Z16

RESISTORS

R1935,R1936	RS1/2S680J
Other Resistors	RS1/16S□□□□J

OTHERS

K1901-K1906 TEST PIN	AKX9002
1901 DC-DC CONVERTER	AXY1054
CN1901 PH CONNECTOR	B13B-PH-SM3

Mark	No.	Description	Part No.
MR INTERFACE ASSY			

[INTERFACE BLOCK]

SEMICONDUCTORS

IC4011	CXA1875AM
IC4007,IC4010	M5223AFP
IC4005	M62320FP
IC4001	PQ05DZ51
IC4002-IC4004	PQ20VZ1U
IC4013	PST9228N
IC4008,IC4009	TC74HC00AF
IC4012	TC74HC4066AF
IC4006	TC74VHCT541AFT
Q4003,Q4004,Q4010	2SA1162
Q4007,Q4009,Q4013,Q4017,Q4018	2SC2712
Q4012,Q4016,Q4019-Q4022	DTC124EK
Q4014	HN1A01FU
Q4008	HN1B04FU
Q4001,Q4002,Q4005,Q4006	HN1C01FU
Q4011,Q4015	RN2902
D4007,D4008	1SS184
D4002-D4006	1SS355

SWITCHES

S4001,S4004	ASH1010
-------------	---------

CAPACITORS

C4023,C4036,C4037	CCSRCH102J50
C4025,C4032	CCSRCH220J50
C4029,C4030,C4053,C4054	CCSRCH471J50
C4001,C4004,C4005,C4008,C4010	CEAT101M10
C4012,C4013,C4016,C4041,C4042	CEAT101M10
C4034,C4038,C4050,C4056	CKSRYB105K6R3
C4043	CKSRYB474K10
C4027,C4028,C4033,C4051	CKSRYF103Z50
C4002,C4003,C4006,C4007	CKSRYF104Z16
C4014,C4015,C4017-C4019,C4024	CKSRYF104Z16
C4026,C4031,C4035,C4039,C4040	CKSRYF104Z16
C4044-C4047,C4049,C4052,C4055	CKSRYF104Z16

RESISTORS

R4019,R4035,R4054,R4066	RAB4C101J
R4056	RAB4C471J
R4007,R4014,R4015,R4117	RS1/16S1001F
R4106	RS1/16S1002F
R4107	RS1/16S1502F
R4098	RS1/16S2201F
R4078	RS1/16S2202F
R4074,R4094	RS1/16S3301F
R4075	RS1/16S4701F
R4057	RS1/16S5601F
R4124	RS1/16S5602F
R4004,R4005,R4115,R4116	RS1/16S8200F
R4093	RS1/16S8201F
R4006	RS2MMF2R2J
Other Resistors	RS1/16S□□□□J

OTHERS

CN4004,CN4005	AKM1180
50P CONNECTOR	
CN4002 20P SOCKET	AKP1194
CN4003 24P DVI SOCKET	AKP1216
CN4006,CN4009	B3B-PH-SM3
3P PH CONNECTOR	

Mark	No.	Description	Part No.
	CN4007	7P PH CONNECTOR	B7B-PH-SM3
	CN4008	8P PLUG	CKS3130

[TMS RECEIVER BLOCK]**SEMICONDUCTORS**

IC4201	24LC01B
IC4203	24LC128(I)SN
IC4202	24LC32A
IC4205	PST9228N
IC4204	SII861CM208
Q4209,Q4212	2SA1162
Q4205,Q4206,Q4213	DTA124EK
Q4203,Q4204,Q4207,Q4208	DTC124EK
Q4210,Q4211,Q4214	DTC124EK
Q4201,Q4202	HN1C01FU
D4201	1SS184
D4203,D4204	1SS226
D4205-D4209	1SS355
D4202	RD6.8MB

FILTERS

F4201,F4203-F4205	EMI FILTER	ATF1194
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CAPACITORS

C4208,C4210,C4215,C4222,C4230	CCSRCH331J50
C4255,C4257	CCSRCH331J50
C4262	CCSRCH471J50
C4206,C4207,C4212,C4214,C4217	CCSRCH820J50
C4219,C4220,C4224,C4227,C4229	CCSRCH820J50
C4231-C4233,C4236,C4241,C4244	CCSRCH820J50
C4248,C4253,C4254,C4258	CCSRCH820J50
C4239,C4242,C4246,C4250	CEAT101M10
C4202,C4237,C4238	CEAT470M10
C4264	CKSRYB103K50
C4265	CKSRYB105K6R3
C4260	CKSRYB472K50
C4263	CKSRYB474K10
C4201,C4203-C4205,C4209,C4211	CKSRYF104Z16
C4213,C4216,C4218,C4221,C4225	CKSRYF104Z16
C4234,C4235,C4240,C4243,C4245	CKSRYF104Z16
C4247,C4251,C4252,C4256,C4259	CKSRYF104Z16
C4261	CKSRYF104Z16
C4223,C4226,C4228,C4249	CKSRYF105Z10
C4266-C4270	CKSRYF105Z10

RESISTORS

R4213-R4217,R4245,R4247	RAB4C181J
R4253-R4255	RAB4C181J
R4241	RAB4C680J
R4250	RS1/16S5100D
Other Resistors	RS1/16S□□□□J

OTHERS

K4201-K4207	TEST PIN	AKX9002
X4201	CRYSTAL RESONATOR (16.000MHz)	ASS1163

Mark	No.	Description	Part No.
------	-----	-------------	----------

[AUDIO BLOCK]**SEMICONDUCTORS**

Q4403	2SA1162
Q4401,Q4402	2SC2712
D4401-D4404	1SS355

CAPACITORS

C4408,C4417	CEANP100M50
C4403	CEAT101M10
C4407	CEAT101M25
C4402	CEAT220M50
C4425,C4426	CEAT470M25
C4410	CKSRYF104Z16

RESISTORS

All Resistors	RS1/16S□□□□J
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OTHERS

CN4403	7P PH CONNECTOR	B7B-PH-SM3
CN4404	8P PH CONNECTOR	B8B-PH-SM3

LED ASSY**SEMICONDUCTOR**

D4751	AEL1170
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OTHERS

CN4751	3P PH CONNECTOR	S3B-PH-SM3
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FRONT KEY ASSY**SWITCHES**

S4801-S4806	ASG1088
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CAPACITORS

C4801-C4803	CKSRYF104Z16
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RESISTORS

All Resistors	RS1/16S□□□□J
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OTHERS

CN4801	6P FFC CONNECTOR	AKM1208
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FRONT KEY CONN ASSY**SEMICONDUCTORS**

D4851,D4852	1SS226
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OTHERS

CN4851	6P FFC CONNECTOR	AKM1208
CN4852	4P PH CONNECTOR	B4B-PH-SM3

IR (P) ASSY**SEMICONDUCTORS**

Q4901	2SC2712
D4901	1SS355

PDP-503PE, PDP-503PU

Mark	No.	Description	Part No.
CAPACITORS			
	C4901		CEV470M6R3
	C4902		CKSRYB103K50
	C4903		CKSRYB472K50
	C4904		CKSRYF104Z16

RESISTORS			
	All Resistors		RS1/16S□□□J

OTHERS			
	4901	REMOTE RECEIVER UNIT	GP1UM26RK

THERMAL SENSOR ASSY

SEMICONDUCTORS			
	IC4702		LM50CIM3
	IC4701		M5223AFP

CAPACITORS			
	C4705		CEV470M6R3
	C4704		CKSRYB103K50
	C4701		CKSRYF104Z16
	C4702,C4703		CKSRYF105Z10

RESISTORS			
	R4706,R4708		RS1/16S3001F
	Other Resistors		RS1/16S□□□J

AUDIO AMP ASSY

SEMICONDUCTORS			
	IC5202		CXA2021S
	IC5002		LA4628
	IC5201		NJM2193L
	IC5001		PQ12RD1B
	Q5002,Q5005		2SA1048
	Q5009,Q5012,Q5013		2SC2458

COIL			
	L5001	FERRITE CORE	ATX1037

CAPACITORS			
	C5203,C5227		CCCCH221J50
	C5213,C5226		CEHANP220M25
	C5232,C5233,C5235		CEHAT100M50
	C5015,C5029,C5033,C5201,C5206		CEHAT101M25
	C5242		CEHAT221M25
	C5032,C5034		CEHAT2R2M50
	C5044,C5050,C5051		CEHAT330M25
	C5005		CEHAT331M16
	C5238		CEHAT470M16
	C5002		CEHAT471M16
	C5013		CEHAT472M25
	C5208,C5211,C5212,C5218		CEHAT4R7M50
	C5222,C5223,C5234		CEHAT4R7M50
	C5045		CEHATR47M50
	C5014,C5204,C5217,C5220,C5228		CFTLA103J50
	C5237		CFTLA103J50
	C5035,C5046,C5053,C5056,C5216		CFTLA104J50
	C5221,C5239		CFTLA104J50
	C5214,C5230		CFTLA224J50
	C5225		CFTLA333J50

Mark	No.	Description	Part No.
	C5219,C5236		CFTLA473J50
	C5003,C5006,C5016,C5042,C5207		CKCYB103K50
	C5210		CKCYB103K50
	C5043,C5052,C5205,C5229		CQMA122J50
	C5224		CQMA222J50
	C5215,C5231		CQMA392J50

RESISTORS			
	R5053,R5054,R5075,R5076		RD1/2MMF2R2J
	R5001		RD1/2MMF3R9J
	Other Resistors		RD1/4PU□□□J

OTHERS			
	J5003	6P HOUSING WIRE	ADX2729
	J5002	8P HOUSING WIRE	ADX2731
	5006	FERRITE CORE HOLDER	AEC1818
	KN5001	GROUND PLATE	ANK-142
	5001,5002,5004,5005	SCREW	VBB30P100FNI

SP TERMINAL ASSY

COILS			
△	L5301,L5352	LINE FILTER	ATF1206

CAPACITORS			
△	C5301,C5305,C5351,C5355		CCCCH221J50
△	C5302,C5352		CKCYB332K50
△	C5303,C5353		CKCYF473Z50

RESISTORS			
△	R5301,R5302,R5351,R5352		RD1/2MMF100J

OTHERS			
	CN5301	4P SPEAKER TERMINAL	AKE1058

V MID CLAMP ASSY

SEMICONDUCTORS			
	Q9003,Q9004		2SA1162
	Q9005,Q9006		2SB950A
	Q9001,Q9002		2SC2712
	D9001-D9008		1SS355
	D9009,D9010		D1FL20U(S)
	D9011,D9012		UDZ27B

CAPACITORS			
	C9001,C9002,C9005,C9006		ACG1101
	(0.01μF/100V)		
	C9003,C9004		CKSRYF104Z16

RESISTORS			
	R9006		RS1/16S1002D
	R9007-R9010		RS1/16S2202D
	R9005		RS1/16S6801D
	R9011-R9014		RT10PZ680K
	Other Resistors		RS1/16S□□□J

OTHERS			
	9001	HEAT SINK L	ANH1602
	CN9001,CN9002	PH CONNECTOR	B5B-PH-SM3
		SCREW	BBZ30P080FMC

6. ADJUSTMENT

6.1 SERVICE FACTORY MODE

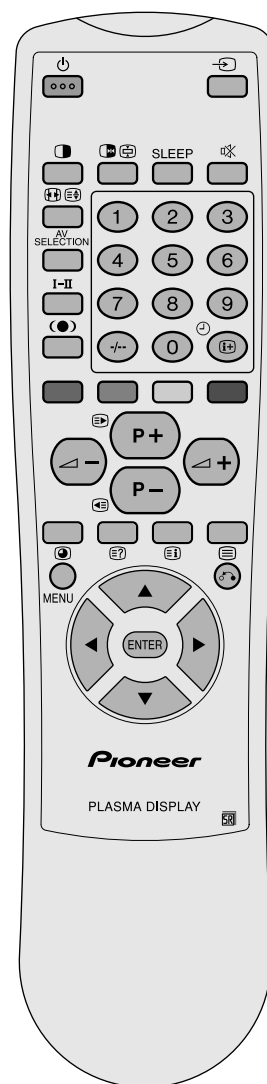


Service factory mode uses an OSD function of the Media Receiver (PDP-R03E or PDP-R03U).
Perform the adjustment and setting in the state that this unit and Media Receiver are connected by the system.
Plasma display cannot use a factory mode by being simple.

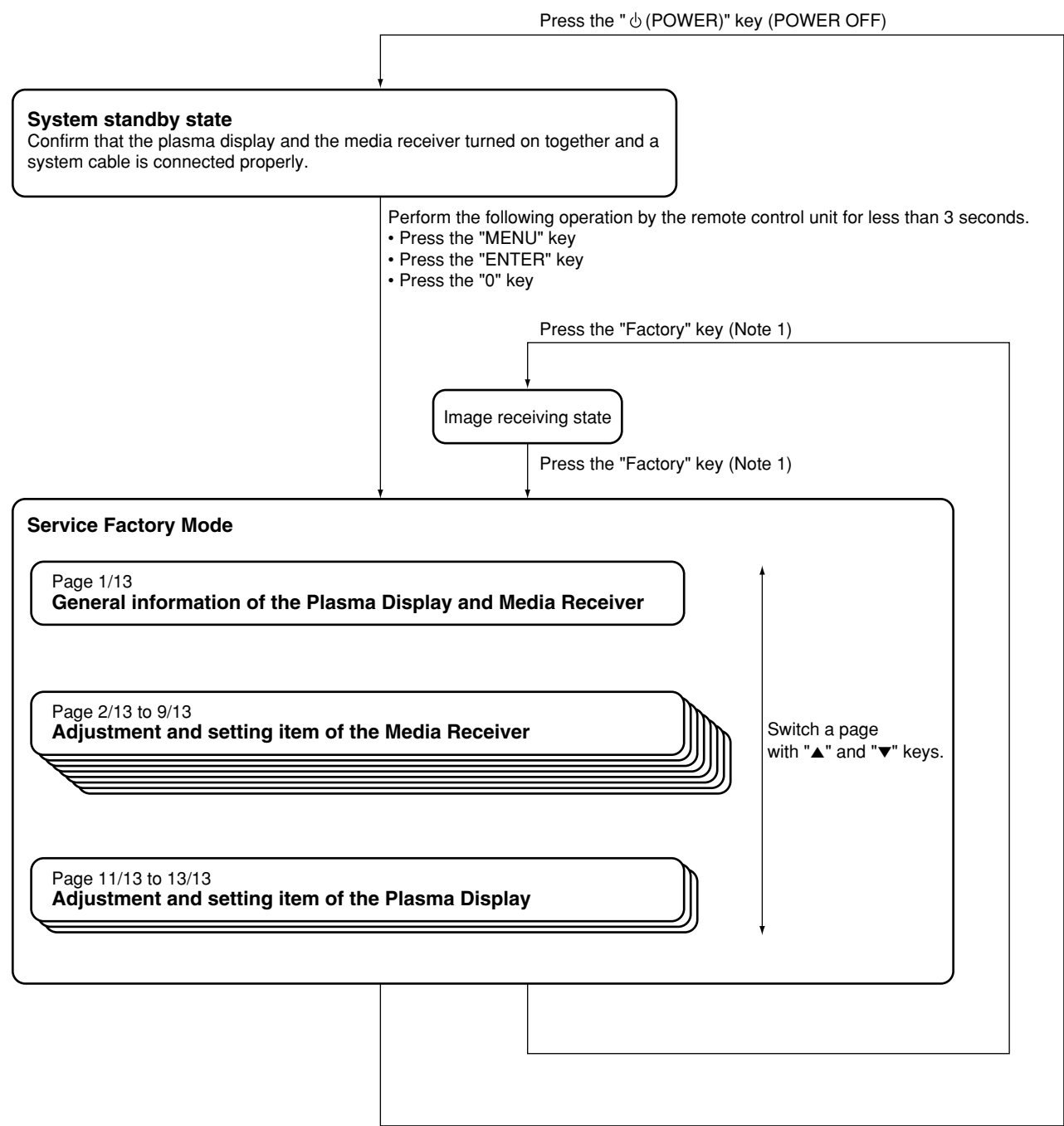
■ Remote Control Unit Operation in The Service Factory Mode

Operate the service factory mode with the remote control unit (AXD1463 or AXD1460) of accessory of the media receiver.
Please perform the adjustment by operating the following keys.

Remote Control Key	Function
P + key	One line moves the selection cursor of the adjustment item up.
P – key	One line moves the selection cursor of the adjustment item down.
VOL $\triangleleft$ + key	+1 raises a adjustment value
VOL $\triangleleft$ – key	–1 reduces a adjustment value
$\blacktriangle$ key	Perform page down (previous page)
$\blacktriangledown$ key	Perform page up (next page)
$\blacktriangleleft$ key	–10 reduces a adjustment value
$\blacktriangleright$ key	+10 raises a adjustment value



6.1.1 How to Enter the Service Factory Mode



Note 1: When use the adjustment exclusive use remote control unit with a [AA5F] code.

* : Be careful so that there is the case that page constitution is different.

6.1.2 General Information of the Plasma Display and Media Receiver

- **Display example of the first page**

	1/13	INPUT1 No SIG			
1	CENTER Version	MR MAIN E 2001/09/25 H			
2	OSD Version	MR OSD 2001/09/10 A			
3	CVIC Version	W2001/09/12 09:00	X2001/09/12 09:07	V2001/09/12 09:10	
4	TTXP Version	TTX PRG	061		
5	MONITOR Version	F6 91 10			
6	PANEL Version	-00			
7	FLASH Version	-05			
8	MONITOR Model	01			
9	Model Select Main	0			
10	Model Select AV	4			
11	Model Select MONITOR	0			
12	Sensore Temp	+28			
13	Center Acutime	16	H	41	M
14	RESET	OFF			
15	Monitor Acutime	47	H	42	M
16	RESET	OFF			
17	Pulse Acutime	164			
18	RESET	OFF			

No.	Item	Explanation
1	Main software version information of the media receiver	
2	OSD version information of the media receiver	
3	IP/resize IC control software version information of the media receiver	
4	Text microcomputer software version information of the media receiver	
5	Module microcomputer software version information of the PDP	
6	Panel microcomputer version information of the PDP	Reference
7	Panel flash ROM version information of the PDP	
8	PDP model information	01: PIONEER 50 inches, 02: PIONEER 43 inches, 11: SHARP 50 inches, 12: SHARP 43 inches
9	Media receiver model information	
10	Media receiver model information	
11	PDP destination information	0: All SHARP destinations, Japanese and North America destinations of PIONEER, 3: European and general destinations of PIONEER
12	Temperature information of panel temperature sensor on the PDP	This is internal temperature information. This is not establishment environment temperature.
13	Media receiver accumulation operating time	
14	Media receiver accumulation operating time reset	Turn the display to [ON] by pressing the "VOL +" key, then it becomes [0H] when pressing the "ENTER" key.
15	PDP accumulation operating time	
16	PDP accumulation operating time reset	Turn the display to [ON] by pressing the "VOL +" key, then it becomes [0H] when pressing the "ENTER" key.
17	PDP accumulation pulse number	Real accumulation pulse number becomes "indicated value *10,000,000 pulse".
18	PDP accumulation pulse number reset	Turn the display to [ON] by pressing the "VOL +" key, then it becomes [0] when pressing the "ENTER" key.

* : Be careful so that there is the case that page constitution is different.

6.1.3 Adjustment and Setting Item of the Plasma Display

● Display example of the eleventh page

	11 / 13		INPUT1 No SIG
1	MNTR V50 WB	02	
2	MNTR V60 WB	01	
3	MNTR PC WB	01	
4	MNTR R HIGH1	255	
5	MNTR G HIGH1	255	
6	MNTR B HIGH1	254	
7	MNTR R LOW1	510	
8	MNTR G LOW1	509	
9	MNTR B LOW1	512	
10	MNTR R HIGH2	255	
11	MNTR G HIGH2	255	
12	MNTR B HIGH2	254	
13	MNTR R LOW2	510	
14	MNTR G LOW2	511	
15	MNTR B LOW2	512	
16			
17			
18			

No.	Item	Adjustable Range	Shipping Setting	Storage Place
1	PDP_W/B table selection at VIDEO 50Hz	1 or 2	2	PDP
2	PDP_W/B table selection at VIDEO 60Hz	1 or 2	1	PDP
3	PDP_W/B table selection at PC	1 or 2	1	PDP
4	RED_GAIN of PDP_W/B table 1	0 to 255	Factory adjustment value	PDP
5	GREEN_GAIN of PDP_W/B table 1	0 to 255	Factory adjustment value	PDP
6	BLUE_GAIN of PDP_W/B table 1	0 to 255	Factory adjustment value	PDP
7	RED_OFS of PDP_W/B table 1	0 to 999	Factory adjustment value	PDP
8	GREEN_OFS of PDP_W/B table 1	0 to 999	Factory adjustment value	PDP
9	BLUE_OFS of PDP_W/B table 1	0 to 999	Factory adjustment value	PDP
10	RED_GAIN of PDP_W/B table 2	0 to 255	Factory adjustment value	PDP
11	GREEN_GAIN of PDP_W/B table 2	0 to 255	Factory adjustment value	PDP
12	BLUE_GAIN of PDP_W/B table 2	0 to 255	Factory adjustment value	PDP
13	RED_OFS of PDP_W/B table 2	0 to 999	Factory adjustment value	PDP
14	GREEN_OFS of PDP_W/B table 2	0 to 999	Factory adjustment value	PDP
15	BLUE_OFS of PDP_W/B table 2	0 to 999	Factory adjustment value	PDP

Caution in the PDP W/B (No.4 to 15) adjustment:

Adjustment value is reflected without relation in input signal during adjustment to the actual PDP.

For example, when operate a adjustment value of [MNTR HIGH1] during PAL input, switch to the adjustment value operation of W/B table 1 while displaying PAL in the actual PDP.

This is temporary.

After adjustment, it becomes the W/B table 2 operation in the PAL input after restarted in the normal mode. It becomes an operation of the W/B table 1 adjustment value after adjustment in the NTSC input.

As for the above example, table selection (No. 1 and 2) becomes the shipping setting.

* : Be careful so that there is the case that page constitution is different.

● Display example of the twelfth page

	12/13		INPUT1 No SIG
1	ABL VIDEO60 PC	118	
2	ABL VIDEO50	122	
3	VOFS ADJ	131	
4	VSUS ADJ	128	
5	XSUSB ADJ	08	
6	XSUSG ADJ	08	
7	YSUSB ADJ	08	
8	YSUSG ADJ	08	
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			

No.	Item	Adjustable Range	Shipping Setting	Storage Place
1	Electric power setting at the PC, VIDEO 60Hz	0 to 255	Factory adjustment value	PDP
2	Electric power setting at VIDEO 50Hz	0 to 255	Factory adjustment value	PDP
3	VOFS voltage setting	0 to 255	Factory adjustment value	PDP
4	VSUS voltage setting	0 to 255	Factory adjustment value	PDP
5	SUS_B timing setting of X drive	0 to 15	Factory adjustment value	PDP
6	SUS_G timing setting of X drive	0 to 15	Factory adjustment value	PDP
7	SUS_B timing setting of Y drive	0 to 15	Factory adjustment value	PDP
8	SUS_G timing setting of Y drive	0 to 15	Factory adjustment value	PDP

Adjustment item of this page is related in damage of the set when mistakes adjustment. When adjustment is needed, be enough careful to adjustment.

Caution in the electric power setting (No. 1 and 2) adjustment:

Adjustment value is reflected without relation in input signal during adjustment to the actual PDP.

For example, when operate a adjustment value of [ABL VIDEO 60 PC] during PAL input, switch to the adjustment value operation of [ABL VIDEO 60 PC] while displaying PAL in the actual PDP. This is temporary.

After adjustment, it becomes the [ABL VIDEO 50] operation in the PAL input after restarted in the normal mode. It becomes an operation of the [ABL VIDEO 60PC] adjustment value after adjustment in the NTSC input.

* : Be careful so that there is the case that page constitution is different.

● Display example of the thirteenth page

	12 / 13		INPUT1 No SIG
1	VIDEO DRIVE MODE	00	
2	PC DRIVE MODE	03	
3	NEGATIVE MODE	OFF	
4	BRIGHT ENHANCE	OFF	
5	MASK V FREQ	50	
6	PATTERN MASK	OFF	
7	FULL MASK	OFF	
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			

No.	Item	Adjustable Range	Shipping Setting	Storage Place
1	Drive mode selection at VIDEO	0 to 5	0	PDP
2	Drive mode selection at PC	0 to 5	3	PDP
3	Negative positive inversion mode	OFF/ON	OFF	PDP
4	Bright enhance	OFF/ON	OFF	None
5	Refresh rate at mask signal generation	50/60/70	—	None
6	Pattern mask signal generation	OFF/	OFF	PDP
7	Full mask signal generation	OFF/	OFF	PDP

Caution in the mask (generation test signal screen in the PDP inside) signal generation:

- A pattern mask and a full mask can use only either.
Therefore, turn a full mask to OFF when uses a pattern mask. Also turn a pattern mask to OFF when uses a full mask.
- A pattern mask and a full mask are test signal screens occurring together in the PDP inside. Therefore, in the mask signal generation, it cannot confirm video inputting from OSD and the outside.
When release mask setting or change of each setting or perform the confirmation of the adjustment or external input signal, perform key operation of the main unit button or the remote control unit.
When operated something, stop the generation of the mask signal just after that for two seconds. Therefore, modification and adjustment of each setting and confirmation of the external input signal are possible.

* : Be careful so that there is the case that page constitution is different.

6.2 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

■ SW POWER SUPPLY Module

● When replaced

No adjustment required.

■ DIGITAL VIDEO Assy

● When repaired

No adjustment required.

● When replaced

- Remove IC1204 (24LC04(1) SN-TBB) from the former PC Board to replace, and install it to the new PC Board.

■ MR INTERFACE Assy

- Set slide SW according to page 22.

■ Y DRIVE Assy

● When repaired

- VOFS/VH/IC5V voltage adjustment
- Timing adjustment of pulse module

● When replaced

- SUSB ground timing adjustment
- Panel white balance adjustment

■ X DRIVE Assy

● When repaired

- VRN voltage adjustment
- Timing adjustment of pulse module

● When replaced

- SUSB ground timing adjustment
- Panel white balance adjustment

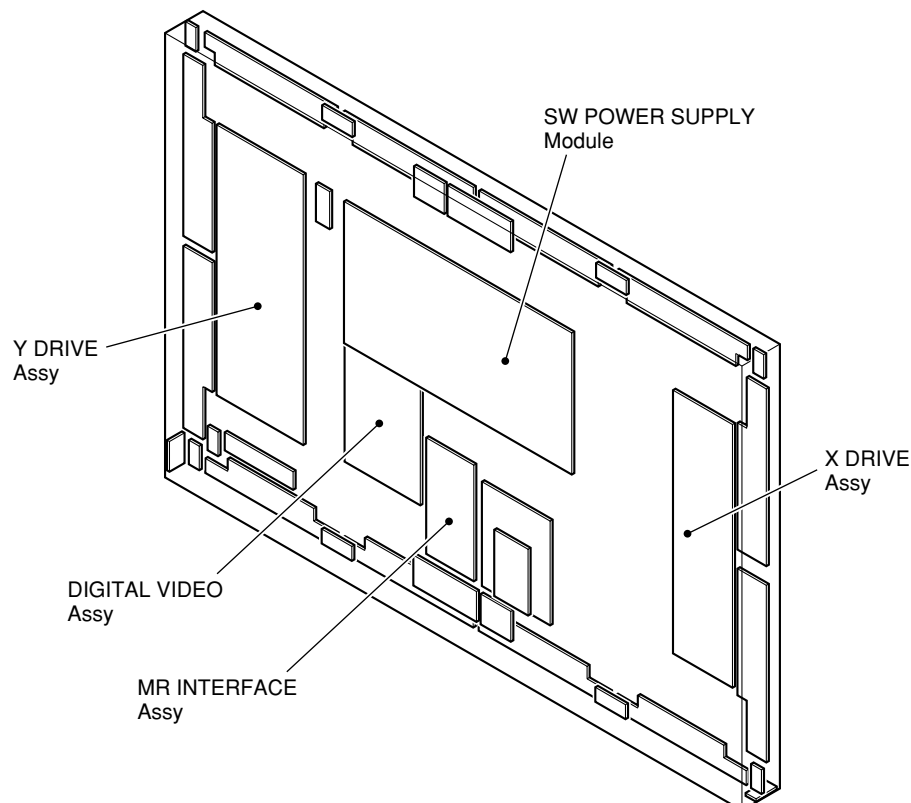


Fig. 1 PC Board Location (rear side view)

6.3 ADJUSTMENT



■ VOFS/VH/IC5V Voltage Adjustment

Input Signal	Adjusting Point	Adjusting Method																																																																																																																																				
White 100%	VR2701 (VOFS) (Y DRIVE Assy)	VOFS (Offset voltage) adjustment Method 1 1. Write down a adjustment value of VOFS ADJ in the factory mode. 2. Set this adjustment value to center (128). 3. Adjust VR2701 so that the voltage between K2701 (VOFS) and K2703 (SUS GND) becomes 45V. 4. Return it to the value that wrote down a adjustment value of V-OFFSET in step 1. Method 2 1. Read the adjustment value of VOFS ADJ in the factory mode. 2. Adjust VR2701 so that the voltage between K2710 (VOFS) and K2703 (SUS GND) becomes following voltage $\pm 0.5V$. <table><thead><tr><th>Input Command</th><th>DAC Output</th><th>Setting Voltage</th><th>Input Command</th><th>DAC Output</th><th>Setting Voltage</th></tr></thead><tbody><tr><td>VOF000</td><td>0.4</td><td>25</td><td>VOF134</td><td>2.599212598</td><td>45.94488</td></tr><tr><td>VOF006</td><td>0.4984375</td><td>25.9375</td><td>VOF141</td><td>2.71496063</td><td>47.04724</td></tr><tr><td>VOF013</td><td>0.61328125</td><td>27.03125</td><td>VOF147</td><td>2.814173228</td><td>47.99213</td></tr><tr><td>VOF019</td><td>0.71171875</td><td>27.96875</td><td>VOF153</td><td>2.913385827</td><td>48.93701</td></tr><tr><td>VOF026</td><td>0.8265625</td><td>29.0625</td><td>VOF160</td><td>3.029133858</td><td>50.03937</td></tr><tr><td>VOF032</td><td>0.925</td><td>30</td><td>VOF166</td><td>3.128346457</td><td>50.98425</td></tr><tr><td>VOF038</td><td>1.0234375</td><td>30.9375</td><td>VOF172</td><td>3.227559055</td><td>51.92913</td></tr><tr><td>VOF045</td><td>1.13828125</td><td>32.03125</td><td>VOF179</td><td>3.343307087</td><td>53.0315</td></tr><tr><td>VOF051</td><td>1.23671875</td><td>32.96875</td><td>VOF185</td><td>3.442519685</td><td>53.97638</td></tr><tr><td>VOF058</td><td>1.3515625</td><td>34.0625</td><td>VOF191</td><td>3.541732283</td><td>54.92126</td></tr><tr><td>VOF064</td><td>1.45</td><td>35</td><td>VOF198</td><td>3.657480315</td><td>56.02362</td></tr><tr><td>VOF070</td><td>1.5484375</td><td>35.9375</td><td>VOF204</td><td>3.756692913</td><td>56.9685</td></tr><tr><td>VOF077</td><td>1.66328125</td><td>37.03125</td><td>VOF211</td><td>3.872440945</td><td>58.07087</td></tr><tr><td>VOF083</td><td>1.76171875</td><td>37.96875</td><td>VOF217</td><td>3.971653543</td><td>59.01575</td></tr><tr><td>VOF090</td><td>1.8765625</td><td>39.0625</td><td>VOF223</td><td>4.070866142</td><td>59.96063</td></tr><tr><td>VOF096</td><td>1.975</td><td>40</td><td>VOF230</td><td>4.186614173</td><td>61.06299</td></tr><tr><td>VOF102</td><td>2.0734375</td><td>40.9375</td><td>VOF236</td><td>4.285826772</td><td>62.00787</td></tr><tr><td>VOF109</td><td>2.18828125</td><td>42.03125</td><td>VOF242</td><td>4.38503937</td><td>62.95276</td></tr><tr><td>VOF115</td><td>2.28671875</td><td>42.96875</td><td>VOF249</td><td>4.500787402</td><td>64.05512</td></tr><tr><td>VOF122</td><td>2.4015625</td><td>44.0625</td><td>VOF255</td><td>4.6</td><td>65</td></tr><tr><td>VOF128</td><td>2.5</td><td>45</td><td></td><td></td><td></td></tr></tbody></table> The symptom is case of mis-adjustment If the VOFS Voltage adjustment is not performed properly, dots like blinking luminance points appear. If deviated greatly from the right adjustment point, panel will light white.	Input Command	DAC Output	Setting Voltage	Input Command	DAC Output	Setting Voltage	VOF000	0.4	25	VOF134	2.599212598	45.94488	VOF006	0.4984375	25.9375	VOF141	2.71496063	47.04724	VOF013	0.61328125	27.03125	VOF147	2.814173228	47.99213	VOF019	0.71171875	27.96875	VOF153	2.913385827	48.93701	VOF026	0.8265625	29.0625	VOF160	3.029133858	50.03937	VOF032	0.925	30	VOF166	3.128346457	50.98425	VOF038	1.0234375	30.9375	VOF172	3.227559055	51.92913	VOF045	1.13828125	32.03125	VOF179	3.343307087	53.0315	VOF051	1.23671875	32.96875	VOF185	3.442519685	53.97638	VOF058	1.3515625	34.0625	VOF191	3.541732283	54.92126	VOF064	1.45	35	VOF198	3.657480315	56.02362	VOF070	1.5484375	35.9375	VOF204	3.756692913	56.9685	VOF077	1.66328125	37.03125	VOF211	3.872440945	58.07087	VOF083	1.76171875	37.96875	VOF217	3.971653543	59.01575	VOF090	1.8765625	39.0625	VOF223	4.070866142	59.96063	VOF096	1.975	40	VOF230	4.186614173	61.06299	VOF102	2.0734375	40.9375	VOF236	4.285826772	62.00787	VOF109	2.18828125	42.03125	VOF242	4.38503937	62.95276	VOF115	2.28671875	42.96875	VOF249	4.500787402	64.05512	VOF122	2.4015625	44.0625	VOF255	4.6	65	VOF128	2.5	45			
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	VR2703 (VH) (Y DRIVE Assy)	VH (voltage for scan IC) Adjustment Adjust so that the voltage between K2716 (VH) and K2720 (PSUS) becomes $103V \pm 0.5V$. PSUS (=GNDH) is a floating GND and the electric potential is different from that of chassis GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because that may damage the unit. The symptom is case of mis-adjustment If the VH adjustment is not performed properly, dots like blinking luminance points appear. If deviated greatly from the right adjustment point, panel will light white.																																																																																																																																				
	VR2702 (IC5V) (Y DRIVE Assy)	IC5V Adjustment Adjust so that the voltage between K2707 (IC5V) and K2720 (PSUS) becomes $5.0V \pm 0.1V$. PSUS (=GNDH) is a floating GND and the electric potential is different from that of chassis GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because that may damage the unit.																																																																																																																																				
Note : Be sure to measure between specified test points.																																																																																																																																						

■ Sustain Pulse Waveform Adjustment

Input Signal	Adjusting Point	Adjusting Method
White 100%	REF_DIG mode in Factory mode XSUSB ADJ YSUSB ADJ	X-SUS-B, Y-SUS-B Adjustment Set to the indicated value with the remote control unit. (Refer to "Timing adjustment of control signal of X and Y Drive Assys".)

■ VRN Voltage Adjustment

Input Signal	Adjusting Point	Adjusting Method
White 100%	VR3701 (VRN) (X DRIVE Assy)	VRN (minus reset voltage adjustment) Adjust so that the voltage between K3707 (VRN) and K3702 (SUS-GND) becomes -300V $\pm$ 1.0V.

■ Panel White Balance Adjustment

Input Signal	Adjusting Point	Adjusting Method									
		Adjust the parameter in the OFFSET-DIGITAL of factory mode as follows; PANEL R-HIGH PANEL B-LOW } In this time, display uses the mask (MASK04) of factory mode. Reference : Adjustment values using the Media color-difference meter (A-100) <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th><th>MASK Left Side</th><th>MASK Right Side</th></tr> </thead> <tbody> <tr> <td>x</td><td>295</td><td>291</td></tr> <tr> <td>y</td><td>306</td><td>300</td></tr> </tbody> </table>		MASK Left Side	MASK Right Side	x	295	291	y	306	300
	MASK Left Side	MASK Right Side									
x	295	291									
y	306	300									

* When perform the various adjustment by RS-232C control, execute a "DM0" command (release the limit of pulse number) beforehand.
After the adjustment completion, execute a "DM 3" command (Limit of pulse number: 64%, shipping state) by all means.

■ Timing Adjustment of X and Y DRIVE Assys Control Signal

● Purpose

- Pulse module loads in DRIVE Assy as one of heat measures of DRIVE Assy. Adjust the drive timing of the pulse module driving parallel with VR.
- Pulse module has each peculiar delay time. Readjustment is necessary when replaced the pulse module in the X and Y DRIVE Assys.

● Adjustment Method

CR delay circuit is each inserted on signal path of four control signals (SUS-U, SUS-B, SUS-D, SUS-G) driving the pulse module.

Quantity of delay can adjust pulse module of one side with VR.

Adjust VR while measuring a waveform of the pulse module, and match a timing.

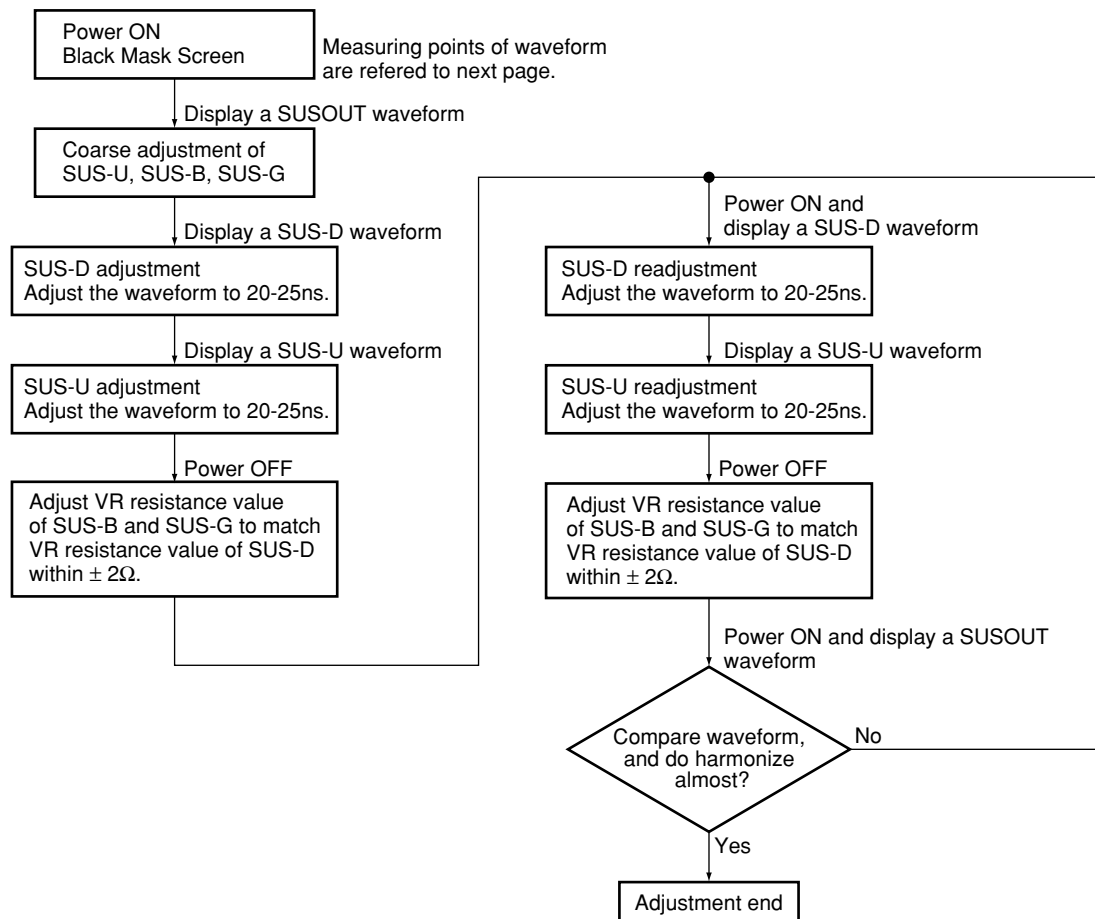
Adjustment VR

	X DRIVE	Y DRIVE
SUS-U	VR3203	VR2204
SUS-D	VR3202	VR2203
SUS-B	VR3201	VR2202
SUS-G	VR3200	VR2201

Test pin for adjustment and measurement

Pulse Module	X DRIVE		Y DRIVE	
	Upper	Lower	Upper	Lower
SUSOUT	K3105	K3106	K2212	K2203
SUS-U	K3200	K3204	K2220	K2224
SUS-D	K3108	K3205	K2207	K2225

● Adjustment Procedure



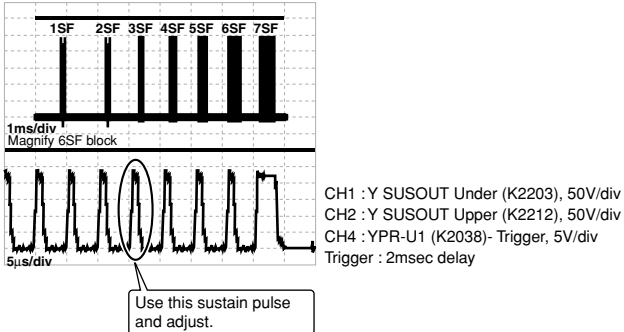
As for this adjustment, adjustment with set state is difficult.
Therefore replace it every Assy when replacing the pulse module.

Measuring Waveform of Pulse Module Timing Adjustment

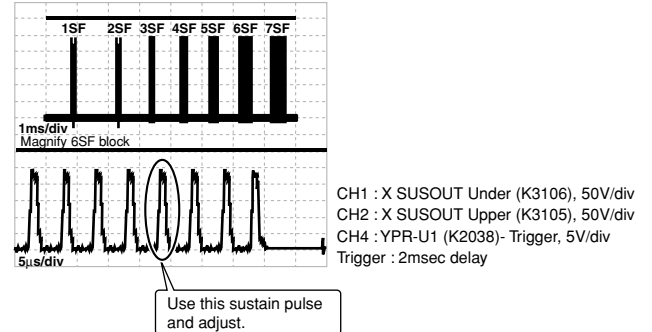
Timing adjustment of the pulse module control signal adjusts with the sustain pulse of eighth pulse (X DRIVE) and the ninth pulse (Y DRIVE) from the back of 6SF.

Measuring point of waveform

Y DRIVE SUSOUT waveform



X DRIVE SUSOUT waveform



- Perform adjustment of waveform with a black mask screen.
- It is easy to adjust when turned field AB offset to OFF (RS-232C command: OCN) in adjustment.

Note:

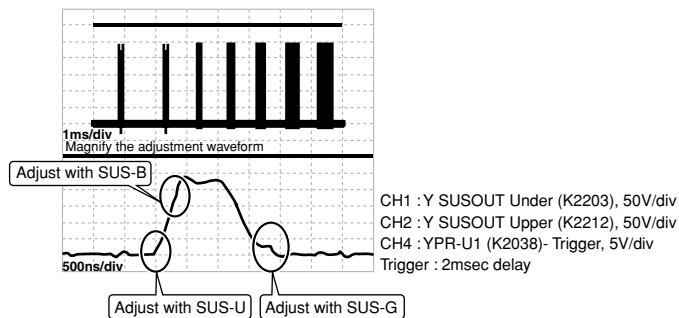
- Sampling rate of oscilloscope sets it more than 500MS/s in order to perform ns order adjustment.
- Collecting calibration of probe before adjustment by all means.
- Connect GND of probe measuring waveform to SUSGND terminal by all means.
- Precise waveform is not displayed, and an adjustment gap may occur that does not collect GND properly.

When took waveform be each drive Assy unit, measure it at the fourth sustain pulse from the back except for a large width sustain pulse.

Therefore, when measured both waveform of the X and Y drives together, it becomes the sustain pulse of 8 and 9 pulses from the back.

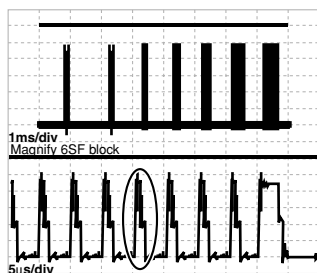
Waveform coarse adjustment

Measure the SUSOUT waveform

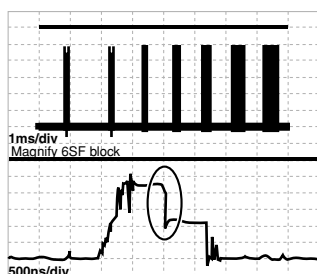


When there is a gap with waveform of CH1 / CH2 of the part which enclosed in the following circle, adjust required VR to overlap the waveform.

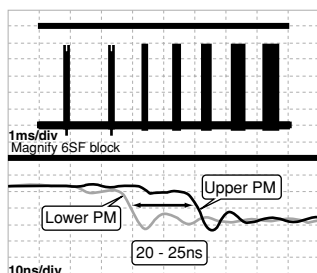
● SUS-D Adjustment (Y DRIVE)



Magnification

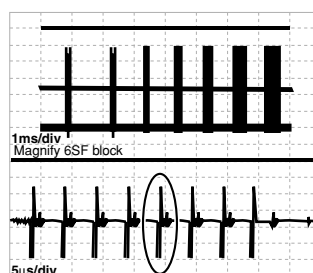


Magnification

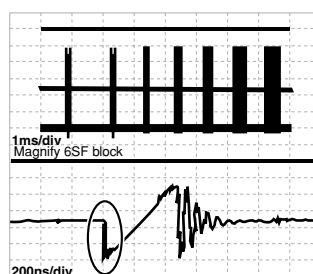


CH1 : Y SUS-D Under (K2225), 50V/div
CH2 : Y SUS-D Upper (K2207), 50V/div
CH4 : YPR-U1 (K2038)- Trigger, 5V/div
Trigger : 2msec delay

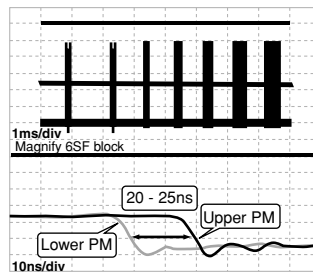
● SUS-U Adjustment (Y DRIVE)



Magnification



Magnification

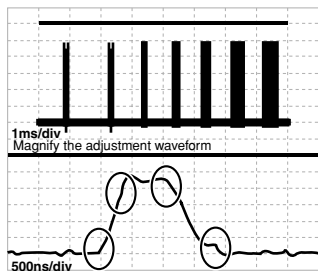


CH1 : Y SUS-U Under (K2224), 50V/div
CH2 : Y SUS-U Upper (K2220), 50V/div
CH4 : YPR-U1 (K2038)- Trigger, 5V/div
Trigger : 2msec delay

Caution:
Not absolutely mistaking upper and lower of waveform.

● Waveform Confirmation in Adjustment completion

Measure the SUSOUT waveform



CH1 : Y SUSOUT Under (K2203), 50V/div
CH2 : Y SUSOUT Upper (K2212), 50V/div
CH4 : YPR-U1 (K2038)- Trigger, 5V/div
Trigger : 2msec delay

Confirm it to waveform of CH1 / CH2 of the part which enclosed in the following circle whether there is not a large gap.
(A gap of the quantity that shifts 20nS and adjusted remains.)

When adjust in the power supply ON state, change so that the quantity of gap that adjusted by temperature-rise of the pulse module becomes small.
Therefore, perform high power OFF (RS-232C command: DRF) except measurement time of waveform when adjusts, and adjustment error by temperature-rise does not occur.

■ SUS-B Ground Timing Adjustment

It is necessary to readjust this adjustment when replaced the X or Y DRIVE Assy and the pulse module.

● Measurement point and method

Measurement point of waveform of X and Y DRIVE Assy in timing adjustment is test pin of SUSOUT of the pulse module of bottom of the main unit.

X DRIVE Assy : K3106 Y DRIVE Assy : K2203

Measurement screen : White mask

The measurement is easy to perform when turns field AB alternation to OFF. (RS-232C command: OCN)

Measure a sustain pulse of the fourth pulse (X DRIVE) and the fifth pulse (Y DRIVE) from the back of the fourth FS, and adjust. In the start section of this sustain pulse, waveform has inflection point with the timing when SUS-B becomes ON. Adjust so that the voltage of this inflection point is the nearest to 150V and do not become less than 150V.

Adjustment parameter

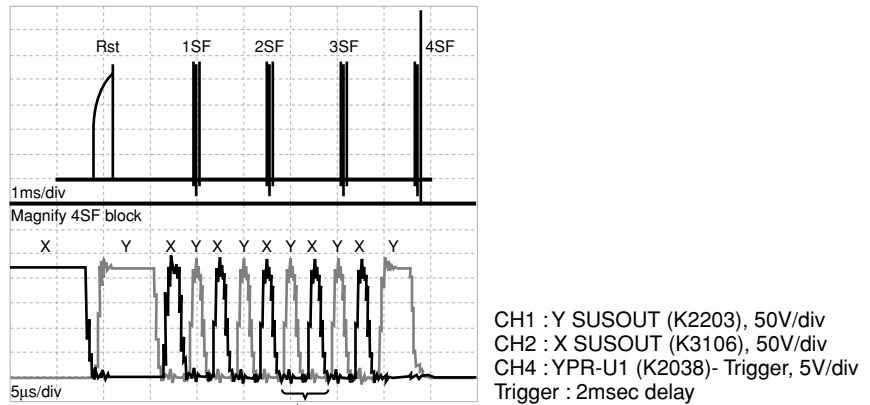
X DRIVE: XSUSB (RS-232C command : XSB)

Y DRIVE: YSUSB (RS-232C command : YSB)

Note:

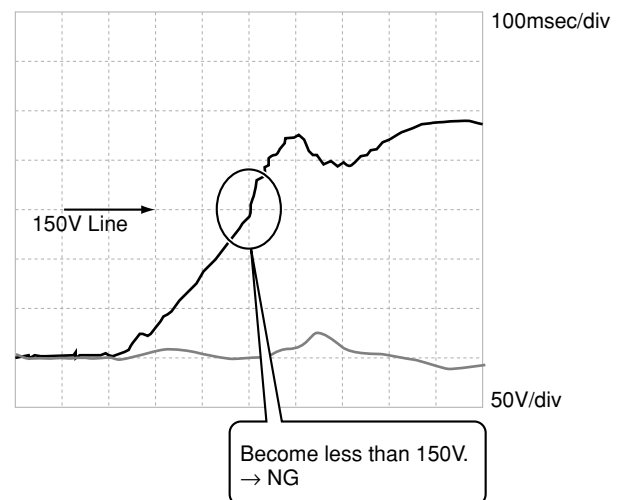
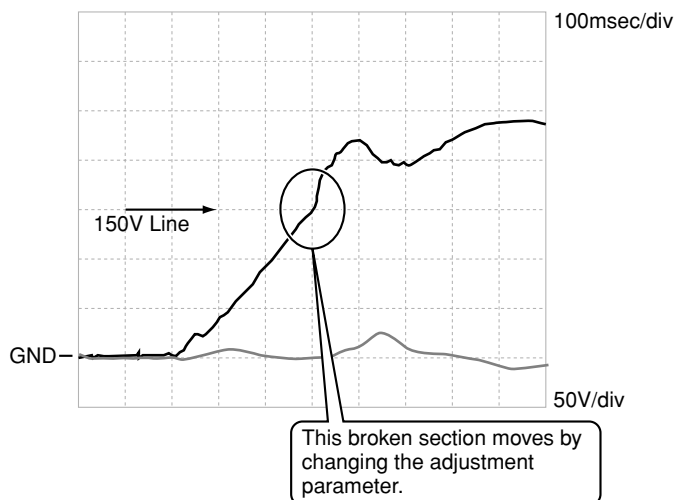
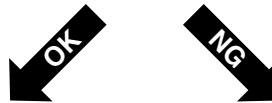
- Connect GND of probe measuring waveform to SUSGND terminal by all means.
- Precise waveform is not displayed, and an adjustment gap may occur that does not collect GND properly.

● Waveform in the measurement

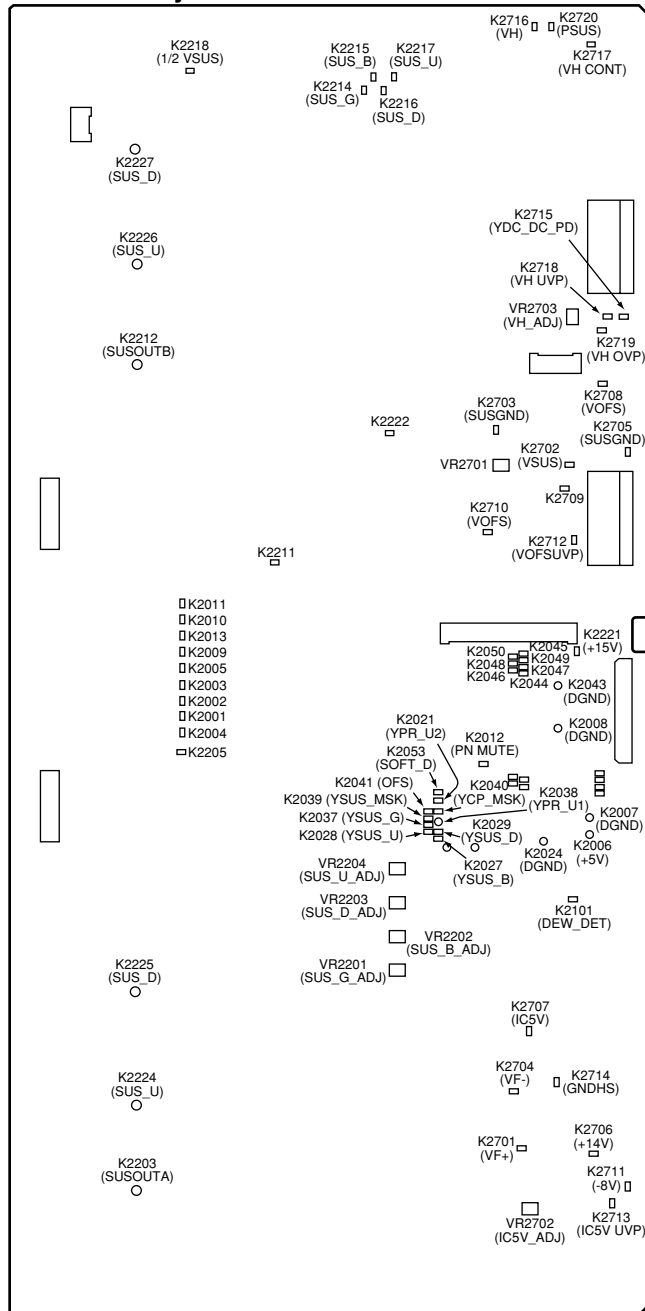


Measure a waveform of this section and adjust.

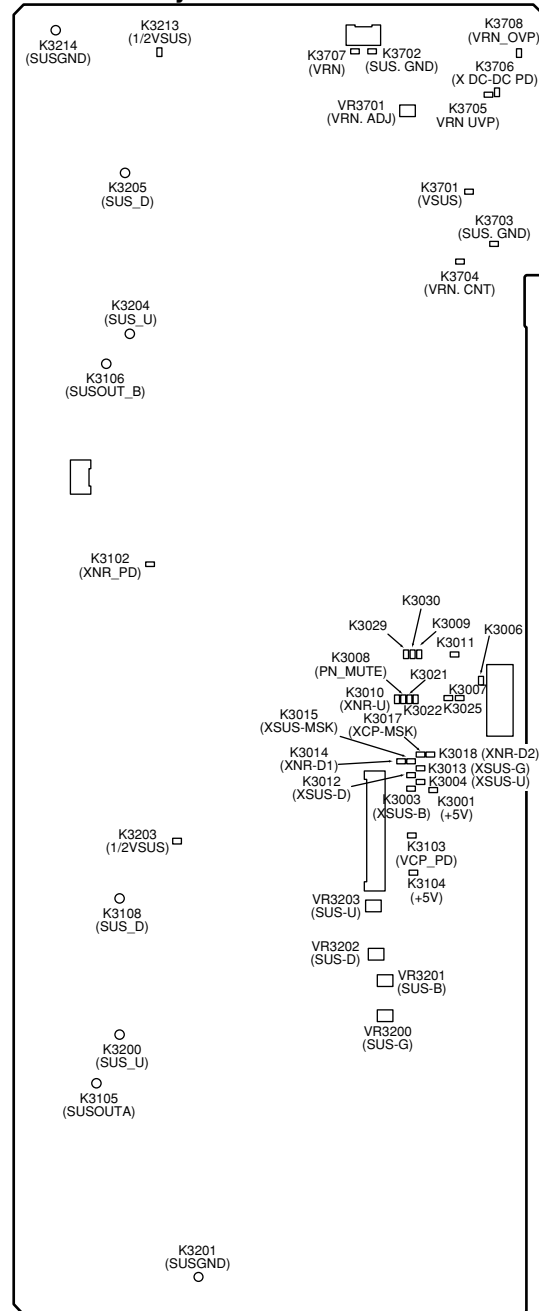
Magnify the fourth pulse sustain pulse (XSUSOUT waveform) from the back of the above waveform.



Y DRIVE Assy



X DRIVE Assy



Adjusting Points

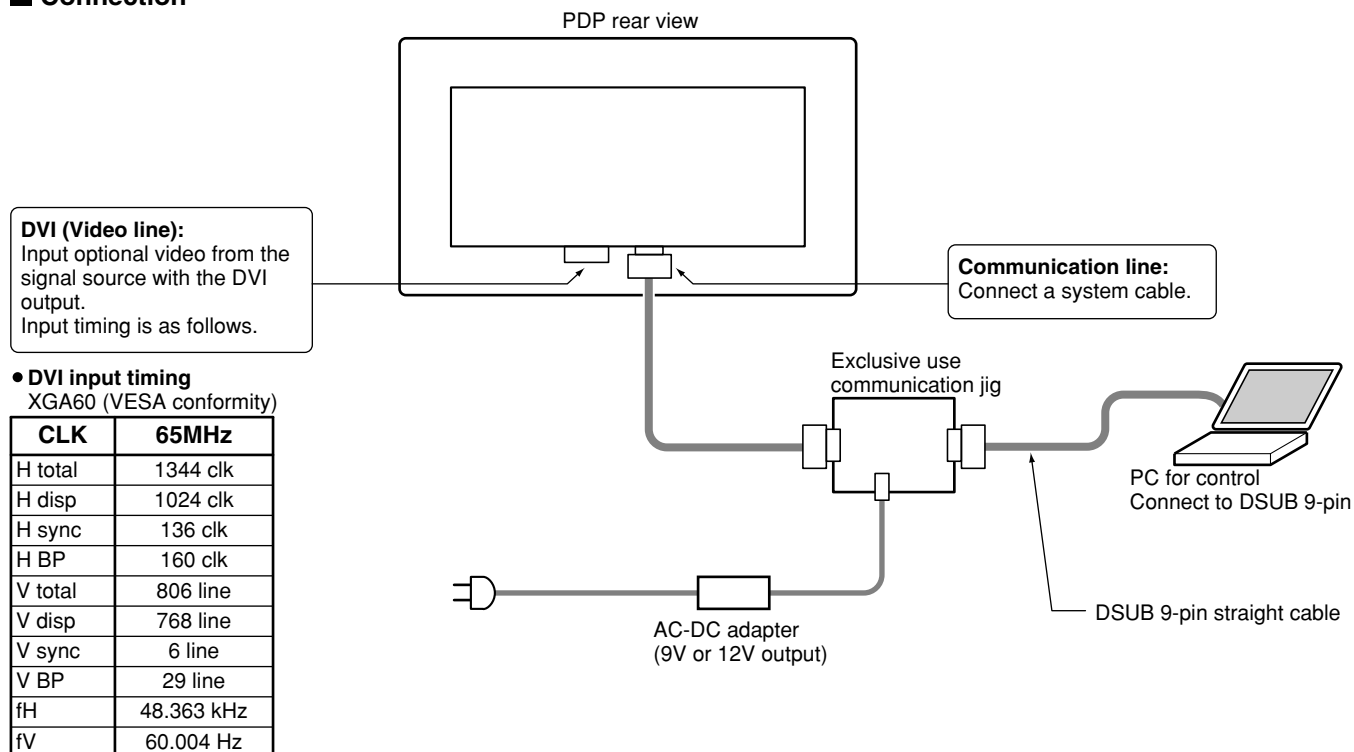
6.4 COMMAND

6.4.1 RS-232C Command

As for PDP-503P system, the 232C control of the panel control item is possible by a single state. However, the following exclusive use communication jig is necessary.

* Be careful so that can not use a DSUB 9-pin in the rear panel of the media receiver.

■ Connection



■ Communication baudrate

38400 bps is fixed.

■ Jig Schematic Diagram



RS-232C Command

Command	Name	Function	Direct Validity	UP/DOWN Validity	Lower Limit	Upper Limit
AB0	ABL REFERENCE MODE	Set the ABL to reference value				
AB1	ABL OFFSET MODE 1	Set the ABL to offset value 1				
AB2	ABL OFFSET MODE 2	Set the ABL to offset value 2				
AB3	ABL OFFSET MODE 3	Set the ABL to offset value 3				
ABL	ABL ADJUST	Adjustment of electric power upper limit	O	O	000	255
AMN	AUDIO MUTE OFF	Mute off request of speaker volume				
AMY	AUDIO MUTE ON	Mute request of speaker volume				
DRF	DRIVE OFF	Drive OFF				
DRN	DRIVE ON	Drive ON				
DW0	DOWN 0	Down the adjustment value with 10				
DWF	DOWN FULL	Minimize the adjustment value				
DWn	DOWN n	Down the adjustment value with n				
EWN	EEPROM WRITE NO	Complete the plug & play EEPROM writing mode				
EWY	EEPROM WRITE YES	Start the plug & play EEPROM writing mode				
F50	FREE RUN 50VIDEO	Display the mask screen with 50Hz (video) sequence				
F60	FREE RUN 60VIDEO	Display the mask screen with 60Hz (video) sequence				
F61	FREE RUN 60PC	Display the mask screen with 60Hz (PC) sequence				
F70	FREE RUN 70PC	Display the mask screen with 70Hz (PC) sequence				
GAJ	GET ADJUST	Acquire the various adjustment value of the display				
GPW	GET PANEL W/B	Acquire the W/B adjustment value of the panel				
GS1	GET STATUS 1	Acquire the version information				
HMS	HOURLY METER SET	Set hour meter to optional time				
M00	MASK 00	Mask mode OFF				
M01	MASK 01	Pattern 1 (Lamp)				
M02	MASK 02	Pattern 2 (Color bar)				
M03	MASK 03	Pattern 3 (Slanting line)				
M04	MASK 04	Pattern 4 (W/B measurement)				
M05	MASK 05	Pattern 5 (W/B adjustment)				
M06	MASK 06	Pattern 6 (W/B peak measurement)				
M07	MASK 07	Pattern 7 (Peak measurement)				
M08	MASK 08	Pattern 8 (Reservation)				
M09	MASK 09	Pattern 9 (SCAN IC protection test)				
M10	MASK 10	Pattern 10 (SCAN IC protection test)				
M11	MASK 11	Pattern 11 (reservation)				
M12	MASK 12	Pattern 12 (reservation)				
M13	MASK 13	Pattern 13 (reservation)				
M14	MASK 14	Pattern 14 (reservation)				
M51	MASK 51	Full mask (white)				
M52	MASK 52	Full mask (cyan 274)				
M53	MASK 53	Full mask (magenta 1023)				
M54	MASK 54	Full mask (flesh color)				
M55	MASK 55	Full mask (cyan 1023)				
M56	MASK 56	Full mask (light purple)				
M57	MASK 57	Full mask (sky blue)				
M58	MASK 58	Full mask (red)				
M59	MASK 59	Full mask (green)				
M60	MASK 60	Full mask (blue)				
M61	MASK 61	Full mask (black)				
M62	MASK 62	Full mask (red 779)				
M63	MASK 63	Full mask (cyan 218)				
M64	MASK 64	Full mask (cyan 444)				
M65	MASK 65	Full mask (flesh color 43)				
M66	MASK 66	Full mask (red 620)				
M67	MASK 67	Full mask (magenta 98)				
M68	MASK 68	Full mask (sky blue 1_43)				
M69	MASK 69	Full mask (sky blue 2_43)				
M70	MASK 70	Full mask (light purple 43)				

PDP-503PE, PDP-503PU

Command	Name	Function	Direct Validity	UP/DOWN Validity	Lower Limit	Upper Limit
M71	MASK 71	Full mask (yellow)				
M72	MASK 72	Full mask (blue 916)				
M73	MASK 73	Full mask (reservation)				
M74	MASK 74	Full mask (reservation)				
MMN	MIRROR MODE NO	Mirror mode OFF (normal display)				
MMX	MIRROR MODE X	Right and left reversing display				
MMY	MIRROR MODE Y	Top and bottom reversing display				
MMZ	MIRROR MODE XY	Top and bottom right and left reversing display				
MTN	PANEL MUTE NO	Release panel mute				
MTY	PANEL MUTE YES	Panel mute				
NMN	NEGATIVE MODE NO	Negative positive inversion mode OFF				
NMY	NEGATIVE MODE YES	Negative positive inversion mode ON				
PBH	PANEL BLUE HIGH	BLUE HIGH LIGHT adjustment	O	O	000	255
PBL	PANEL BLUE LOW	BLUE LOW LIGHT adjustment	O	O	000	999
PGH	PANEL GREEN HIGH	GREEN HIGH LIGHT adjustment	O	O	000	255
PGL	PANEL GREEN LOW	GREEN LOW LIGHT adjustment	O	O	000	999
PHN	PANEL HIGHT-LIGHT NO	Release the W/B highlight maximum mode of the panel				
PHY	PANEL HIGHT-LIGHT YES	Set the W/B highlight of the panel to maximum				
PLN	BRIGHT ENHANCE NO	Center brightness correction enhance OFF				
PLY	BRIGHT ENHANCE YES	Center brightness correction enhance ON				
PMS	PULSE METER SET	Optional setting of the pulse meter				
POF	POWER OFF	Standby request				
PON	POWER ON	Power ON request				
PRH	PANEL RED HIGH	RED HIGH LIGHT adjustment	O	O	000	255
PRL	PANEL RED LOW	RED LOW LIGHT adjustment	O	O	000	999
PCN	PC MODE NO	At the 60Hz input: VIDEO sequence selection				
PCY	PC MODE YES	At the 60Hz input: PC sequence selection				
PT0	PANEL COLOR TEMP 0	Set each temperature mode to 0 (REF)				
PT1	PANEL COLOR TEMP 1	Set each temperature mode to 1 (OFS1)				
PT2	PANEL COLOR TEMP 2	Set each temperature mode to 2 (OFS2)				
UP0	UP 0	Maximize the adjustment value				
UPF	UP FULL	Maximize the adjustment value				
UPn	UP n	Rise the adjustment value with n				
VOF	VOFFSET ADJUST	Vofs adjustment	O	O	000	255
VOL	VOLUME	Volume	O	O	000	060
VSU	VSUS ADJUST	Vsus adjustment	O	O	000	255
XSB	XSUS B	X-SUS-B pulse adjustment	O	O	000	015
XSG	XSUS G	X-SUS-G pulse adjustment	O	O	000	015
YSB	YSUS B	Y-SUS-B pulse adjustment	O	O	000	015
YSG	YSUS G	Y-SUS-G pulse adjustment	O	O	000	015

6.4.2 GET Command

● Command Description

Command	Function
GAJ	Output data of an electronic VR adjustment value and a drive system adjustment value
GPW	Output data to be related to white balance adjustment of the panel
GS1	Output data such as version information, hour meter and pulse meter

GAJ: Output data of an electron VR adjustment value and a drive system adjustment value

• Output it according to transmission order and size of the table below.

Order	Data Contents	Size	Remarks
1	Setting mode of electric power upper limit value	3 byte	AB* (*: 0 to 3)
2	Electric power upper limit value (ABL)	(Reference data)	3 byte
3		(Offset data)	3 byte (Note 1)
4	Vsus adjustment value	(Reference data)	3 byte
5	Vofs adjustment value	(Reference data)	3 byte
6	V-SUS-B adjustment value	(Reference data)	3 byte
7	V-SUS-G adjustment value	(Reference data)	3 byte
8	Y-SUS-B adjustment value	(Reference data)	3 byte
9	Y-SUS-G adjustment value	(Reference data)	3 byte

(Note 1) : When performed in reference mode selection, offset data outputs the same value as the reference data.

(Note 2) : Checksum of 2 bytes is added at the end, but ignore it.

GPW (Get Panel White balance): Output data to be related to white balance adjustment of panel

• Output it according to transmission order and size of the table below.

Order	Data Contents	Size	Remarks
1	Panel color temperature mode	3 byte	PT* (*: 0 to 3)
2	Gain of W/B adjustment value Red	(Reference data)	3 byte
3		(Offset data)	3 byte (Note 1)
4	Gain of W/B adjustment value Green	(Reference data)	3 byte
5		(Offset data)	3 byte (Note 1)
6	Gain of W/B adjustment value Blue	(Reference data)	3 byte
7		(Offset data)	3 byte (Note 1)
8	Offset of W/B adjustment value Red	(Reference data)	3 byte
9		(Offset data)	3 byte (Note 1)
10	Offset of W/B adjustment value Green	(Reference data)	3 byte
11		(Offset data)	3 byte (Note 1)
12	Offset of W/B adjustment value Blue	(Reference data)	3 byte
13		(Offset data)	3 byte (Note 1)

(Note 1) : When performed in reference mode selection, offset data outputs the same value as the reference data.

(Note 2) : Checksum of 2 bytes is added at the end, but ignore it.

GS1: Output data such as version information, hour meter and pulse meter

• Output it according to transmission order and size of the table below.

Order	Data Contents	Size	Remarks
1	Display information	3 byte	See below
2	Module microcomputer model number	4 byte	5691 or F691
3	Module microcomputer version	3 byte	
4	Panel microcomputer version	3 byte	
5	Panel /FLASH ROM version	3 byte	
6	Hour meter (hour)	5 byte	Unit: H (time)
7	Pulse meter	7 byte	Unit: 0.01G (10,000,000)
8	Main microcomputer model number	4 byte	5692 or F692
9	Main microcomputer version	3 byte	
10	Wide microcomputer version	3 byte	
11	Wide /FLASH ROM version	3 byte	

(Note) : Checksum of 2 bytes is added at the end, but ignore it.

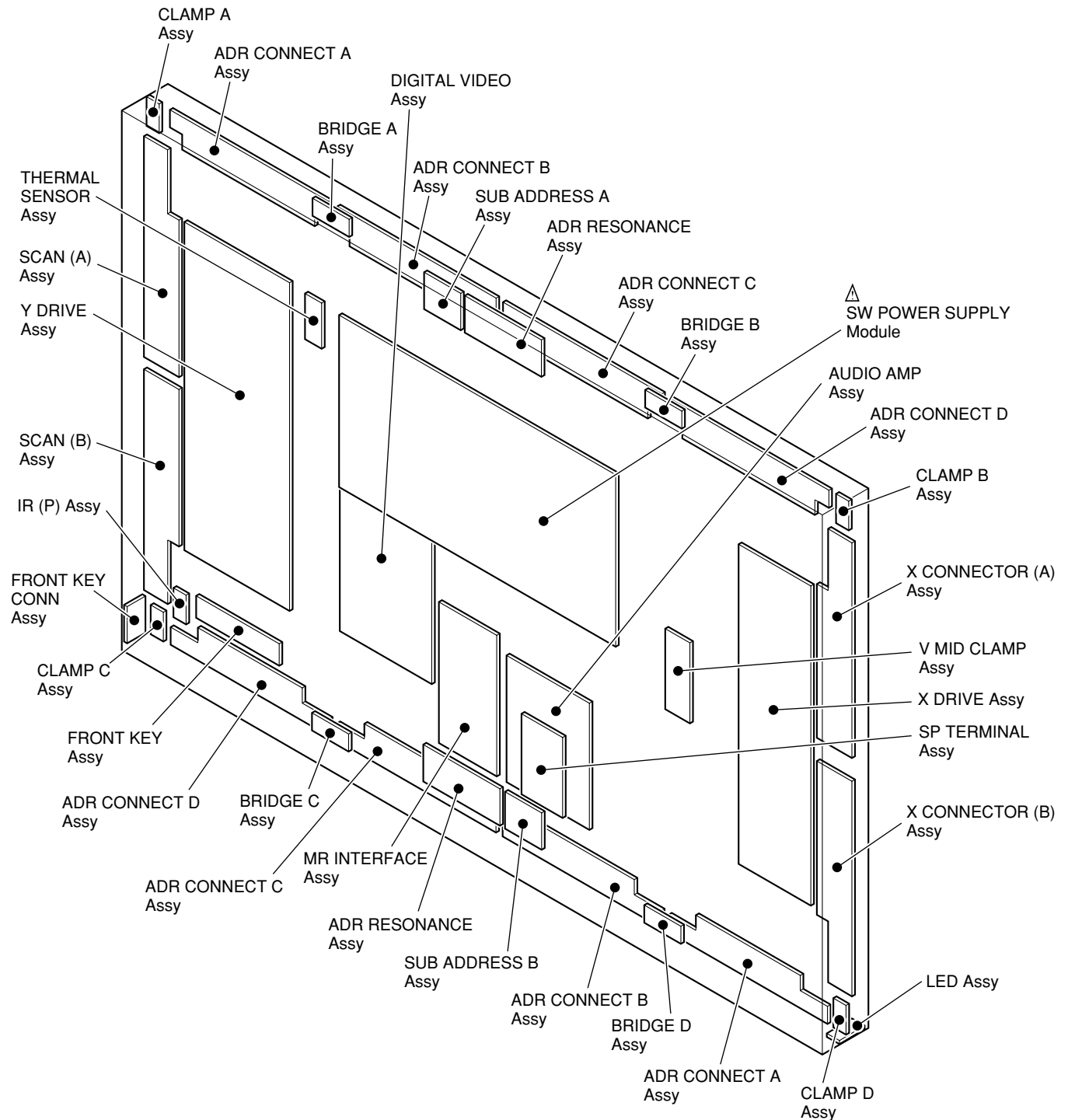
■ Display Information

Data	Model
MX5	PDP-503MX (initial value)
MX4	PDP-433MX
MD5	Module 50 inches
MD4	Module 43 inches
HD5	PDP-503HD
HD4	PDP-433HD

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 PCB LOCATION



● Rear View

7.1.2 SHUT DOWN/POWER DOWN DIAGNOSIS BY LED DISPLAY

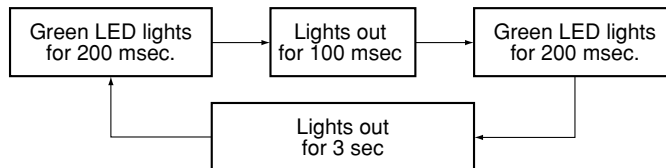
When internal circuit abnormality and other operation abnormality occurred from this unit, self-diagnose display function by STANDBY/ON (LED) indicator is loaded.

Each NG point by LED blinking and a PD (power down) point are as follows.

● Shut Down

- Operations : When a microcomputer detected abnormality, turn the power supply to OFF.
- LED display : Green blinks

Examples: LED blinks in the DIGITAL-IIC communication NG



Number of blinks	Name
1	Panel Microcomputer NG
2	DIGITAL-IIC communication NG
3	Dewdrop abnormality
4	Temperature abnormality

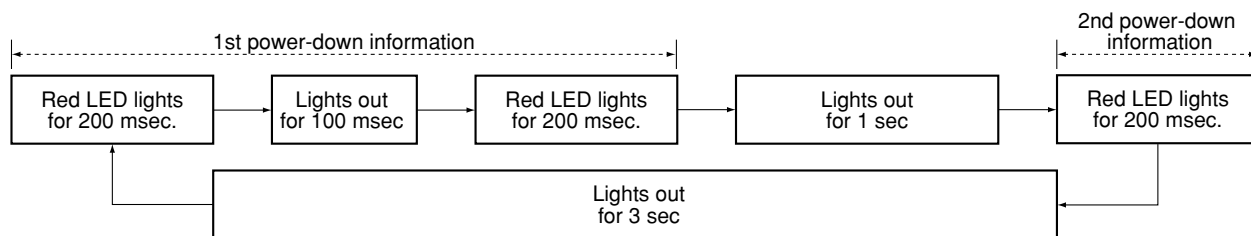
How to release the shut down state

When turn the power supply ON by remote control units, release from the shut down state, and turn the power supply ON.
(It is not necessary to turn the AC power OFF.)

● Power Down

- Operations : When this unit becomes the dangerous state, turn the power supply OFF with the protection circuit.
- LED display : Red blinks
- * When protection circuit more than two places almost worked simultaneously, display LED in order to 1st - 2nd.

Examples: LED blinks in the 1st power down = Y-DC/DC CONVERTER, 2nd power down = Y-DRIVE



Number of blinks	Name
1	Y-DRIVE
2	Y-DC/DC CONVERTER
3	X-DC/DC CONVERTER
4	X-DRIVE
5	Power supply
6	Address junction
7	Address resonance
8	DIGITAL-DC/DC CONVERTER

How to release the power down state

AC power OFF



Wait for PD LED in the power supply module disappearing (for around 30 seconds).



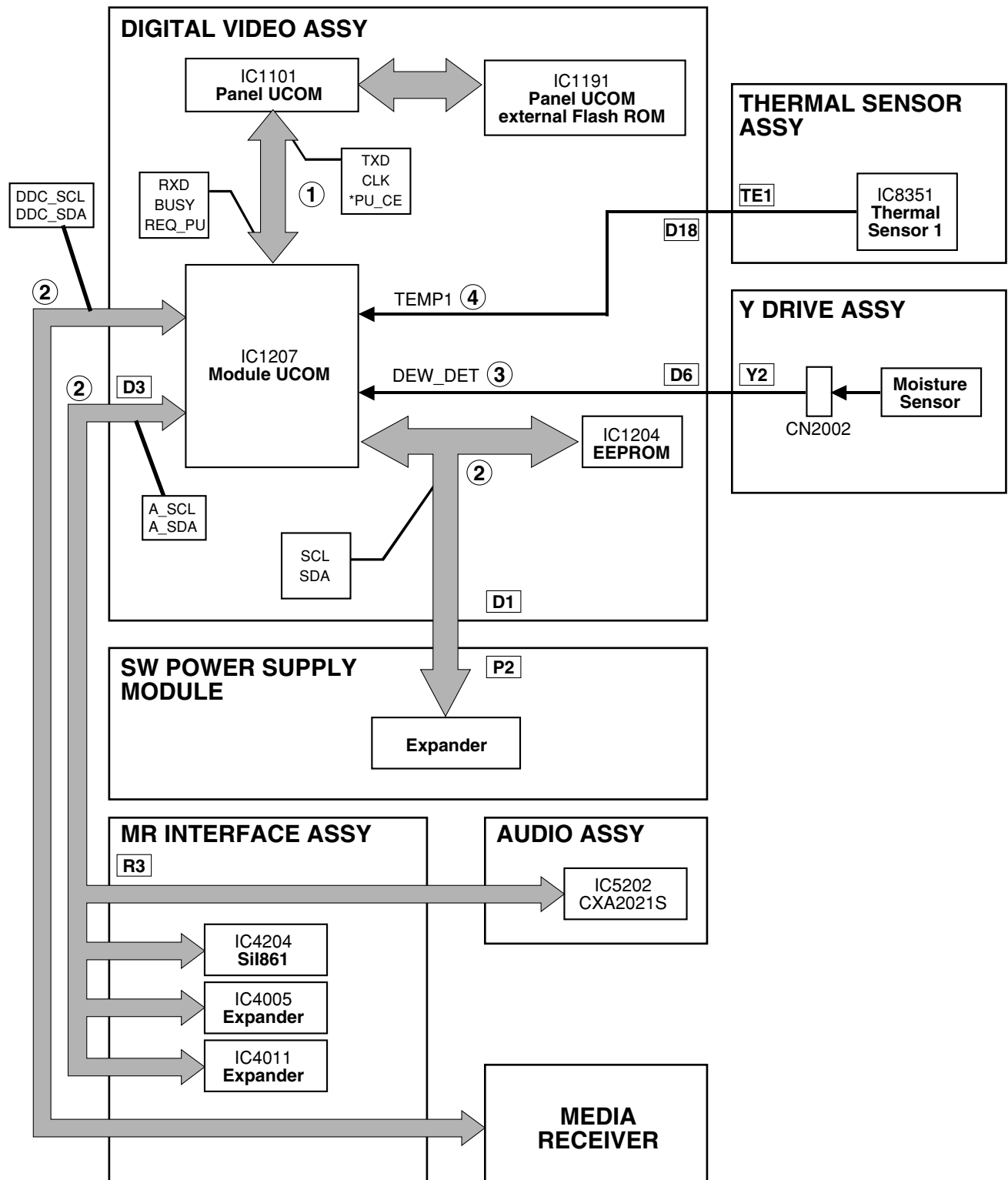
Afterwards, wait moreover for five seconds.



Return by AC power ON.

* After power down release, this unit rises up in the standby state.

● Block Diagram of Shut Down Signal System



Note: ① - ④ show LED flashing number of times when shut down occurred in this route.

● Shut down diagnosis

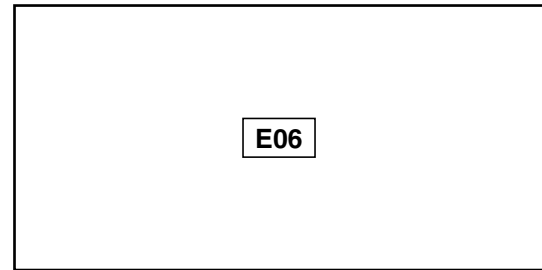
① Panel microcomputer NG

When a module microcomputer failed in communication with a panel microcomputer, this NG occurs.

Shut down after OSD display for 30 seconds from the NG detection.

Abnormality to expect

Open / Short of communication line in the Assy



② DIGITAL-IIC communication NG

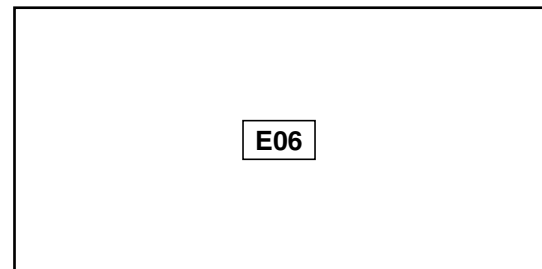
When a module microcomputer failed in communication with outside EEPROM or EXPANDER, this NG occurs.

Shut down after OSD display for 30 seconds from the NG detection.

* However, this communication NG may occur in the standby state.

Abnormality to expect

- Open / Short of communication line in the DIGITAL VIDEO, MR INTERFACE and AUDIO Assys
- Breaking of wire of the following points is thought about.
DIGITAL VIDEO Assy (D1) ↔ SW POWER SUPPLY Module (P2)
DIGITAL VIDEO Assy (D3) ↔ MR INTERFACE Assy (R3)
MR INTERFACE Assy (R23) ↔ AUDIO Assy (A24)
System Cable



③ Dew drop detection

When it becomes the dew drop state in this unit, this NG occurs.

After the dew drop detection, shut down immediately.

Abnormality to expect for dew drop

Disconnect a connector CN2002 between Dew drop sensor and Y DRIVE Assy.

④ Temperature abnormality

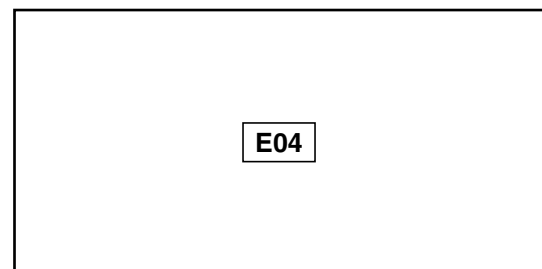
When temperature of this unit became abnormally high, this NG occurs.

Shut down after OSD display from the NG detection for 30 seconds.

Note: When temperature fell down during indication, return to the normal operation.

Abnormality to expect when it occurs in the environment that is not high-temperature

- Disconnect a connector between DIGITAL VIDEO Assy (D18) and temperature sensor 1 (TE1).

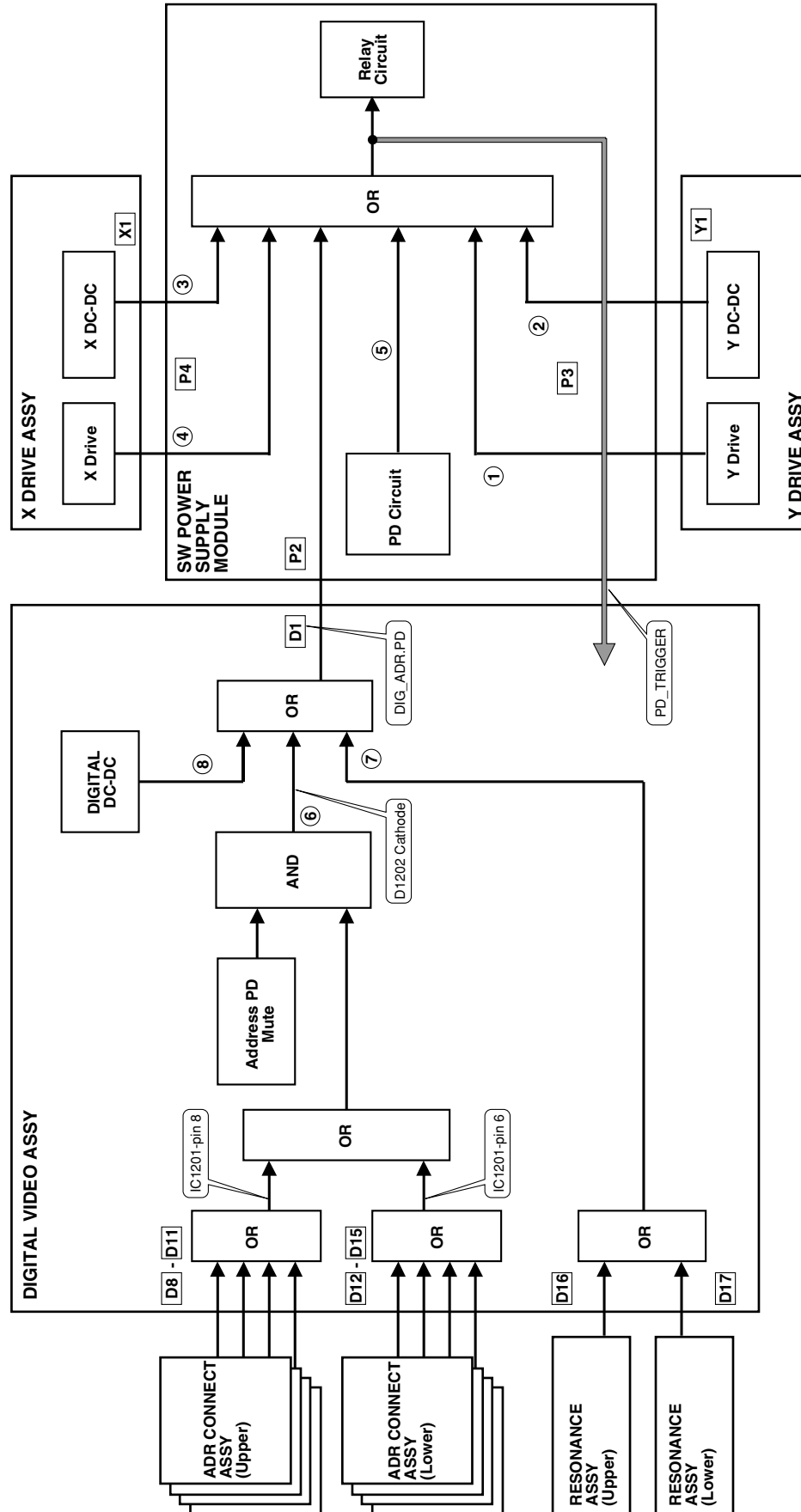


Reference

Shut down temperature of each temperature sensor
Sensor Temp ≥ 78

1/13		INPUT1 No SIG			
1	CENTER Version	MR MAIN E 2001/09/25 H			
2	OSD Version	MR OSD 2001/09/10 A			
3	CVIC Version	W2001/09/12 09:00 X2001/09/12 09:07 V2001/09/12 09:10			
4	TTXP Version	TTX PRG 061			
5	MONITOR Version	F6 91 10			
6	PANEL Version	-00			
7	FLASH Version	-05			
8	MONITOR Model	01			
9	Model Select Main	0			
10	Model Select AV	4			
11	Model Select MONITOR	0			
12	Sensore Temp	+28			
13	Center Acutime	16	H	41	M
14	RESET	OFF			
15	Monitor Acutime	47	H	42	M
16	RESET	OFF			
17	Pulse Acutime	164			
18	RESET	OFF			

● Block Diagram of Power Down Signal System



Note: ① - ⑧ show LED flashing number of times when power down occurred in this route.

PDP-503PE, PDP-503PU

● Kind and function of the various protection circuit (P.D. circuit)

Assy Name	Red LED Number of Blinks	Kind of P.D. Circuit	Function	Remarks
Y DRIVE Assy	1	VCP OCP	P.D. by VCP overcurrent	
	2	VOFS OVP	P.D. by VOFS overvoltage	
		VOFS UVP	P.D. by VOFS undervoltage (= overcurrent)	
		VH OVP	P.D. by VH overvoltage	
		VH UVP	P.D. by VH undervoltage (= overcurrent)	
		IC5V UVP	P.D. by IC5V undervoltage (= overcurrent)	
X DRIVE Assy	3	VRN OVP	P.D. by VRN overvoltage	
		VRN UVP	P.D. by VRN undervoltage (= overcurrent)	
	4	VCP OCP	P.D. by VCP overcurrent	
		RESET OCP	P.D. by reset circuit overcurrent	
SW POWER SUPPLY Module	5	VSUS OVP	P.D. by VSUS overvoltage	
		VSUS UVP	P.D. by VSUS undervoltage (= overcurrent)	
		VADR OVP	P.D. by VADR overvoltage	
		VADR UVP	P.D. by VADR undervoltage (= overcurrent)	
		15V OVP	P.D. by 15V overvoltage	
		15V UVP	P.D. by 15V undervoltage (= overcurrent)	
		12V UVP	P.D. by 12V undervoltage (= overcurrent)	
		6.5V OVP	P.D. by 6.5V overvoltage	
		6.5V UVP	P.D. by 6.5V undervoltage (= overcurrent)	
		13.5V UVP	P.D. by 13.5V undervoltage (= overcurrent)	
		-9V UVP	P.D. by -9V undervoltage (= overcurrent)	
		+B OVP	P.D. by +B overvoltage	
		+B OCP	P.D. by +B overcurrent	
		AC200V P.D.	P.D. by AC200V apply	Note 1
			PFC module overheat protection	
			VSUS arc resistance overheat protection	
ADR CONNECT Assy	6	ADR.PD	P.D. by disconnecting the connector	
RESONANCE Assy	7	ADR.K.PD	P.D. by ICP open and TCP defective	
DIGITAL VIDEO Assy	8	5.0V OVP	P.D. by 5V overvoltage	
		5.0V UVP	P.D. by 5V undervoltage (= overcurrent)	
		3.3V OVP	P.D. by 3.3V overvoltage	
		3.3V UVP	P.D. by 3.3V undervoltage (= overcurrent)	
		2.5V OVP	P.D. by 2.5V overvoltage	
		2.5V UVP	P.D. by 2.5V undervoltage (= overcurrent)	

Reference

OVP : Over Voltage Protect

UVP : Under Voltage Protect

OCP : Over Current Protect

Note 1: AC200V P.D. is not applicable to the PDP-503PE and PDP-503PU models.

● Diagnosis of the error point in the various protection circuit (P.D. circuit) operation (Red LED blinks)

Number of Blinks	P.D. Point in Operation	Error Pont	Possible Part of Error	Circuit State	Operation P.D. Circuit	Diagnosis Condition
1	Y DRIVE	Y DRIVE Assy	IC2206, IC2214 (Pulse module), IC2203, IC2204, IC2212, IC2213, IC2213, IC2217, R2209	K2211 Lo	VCP OCP	
		VOFS D/D CONV. BLOCK (Y DRIVE Assy)	IC2702, IC2709, IC2715	K2712 Lo	VOFS OVP	
		VOFS D/D CONV. BLOCK (Y DRIVE Assy)	IC2701, IC2702, IC2709, IC2715	K2709 Lo	VOFS UVP	Drive section (control signal, output elements etc.) in normal operation
		VH D/D CONV. BLOCK (Y DRIVE Assy)	Q2211, Q2212, R2277, IC2208, IC2210	K2719 Lo	VH OVP	VOFS D/D CONV. BLOCK in normal operation
2	Y DC DC	VH D/D CONV. BLOCK (Y DRIVE Assy)	IC2712, IC2716			Drive section (control signal, output elements etc.) in normal operation
		SCAN (A), (B) Assy	IC2711, IC2712, IC2716	K2718 Lo	VH UVP	VH D/D CONV. BLOCK in normal operation
		IC5V D/D CONV. BLOCK (Y DRIVE Assy)	SCAN IC			SCAN Assy in normal operation
		SCAN (A), (B) Assy	IC2704, IC2706, IC2717	K2713 Lo	IC5V UVP	IC5V D/D CONV. BLOCK in normal operation
		IC5V D/D CONV. BLOCK (Y DRIVE Assy)	SCAN IC			SCAN Assy in normal operation
3	X DC DC	VRN D/D CONV. BLOCK (X DRIVE Assy)	IC2704, IC2706, IC2717	K3708 Lo	VRN OVP	
		VRN D/D CONV. BLOCK (X DRIVE Assy)	IC3702, IC3712			Drive section (control signal, output elements etc.) in normal operation
		VRN D/D CONV. BLOCK (X DRIVE Assy)	IC3701, IC3702, IC3712	K3705 Lo	VRN UVP	VRN D/D CONV. BLOCK in normal operation
		X DRIVE Assy	Q3122			
4	X DRIVE	X DRIVE Assy	IC3200, IC3201 (pulse module), IC3103, IC3104, IC3106, IC3107, IC3110, IC3113, R3109	K3103 Lo	VCP OCP	
		X DRIVE Assy	Q3122	K3102 Lo	VRN OCP	
		X DRIVE Assy	IC3200, IC3201 (Pulse module)			When P4 connector disconnected, P.D. does not occur
		Y DRIVE Assy	IC2206, IC2214 (Pulse module)			When P3 connector disconnected, P.D. does not occur
5	PS	MX AUDIO Assy	IC8601 (Audio IC)			When P6 connector disconnected, P.D. does not occur
		ADDRESS CONNECT A - D Assy, RESONANCE Assy, D/D CONV. BLOCK (DIGITAL VIDEO Assy)				When pin 5 of P2 connector disconnected, P.D. does not occur
		SW POWER SUPPLY Module	SW POWER SUPPLY Module			When the voltage is not output even if P4, P3 and P6 connectors disconnected
6	ADR	ADDRESS CONNECT A~D Assy	Disconnect D8 - D15 connectors		ADR. PD	
7	ADR K	RESONANCE Assy	TCP damage of IC6704 (ICP), disconnect D16 and D17 connectors, panel microcomputer is defective, outside Flash ROM of the panel microcomputer is defective.		ADR. K. PD	
8	DIGITAL DC DC	D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1901 Lo	5.0V OVP	
		D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1902 Lo	5.0V UVP	
		D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1903 Lo	3.3V OVP	
		D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1904 Lo	3.3V UVP	
		D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1905 Lo	2.5V OVP	
		D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1906 Lo	2.5V UVP	

Note: About PS PD

The condition that Red LED blinks five times (power supply PD)

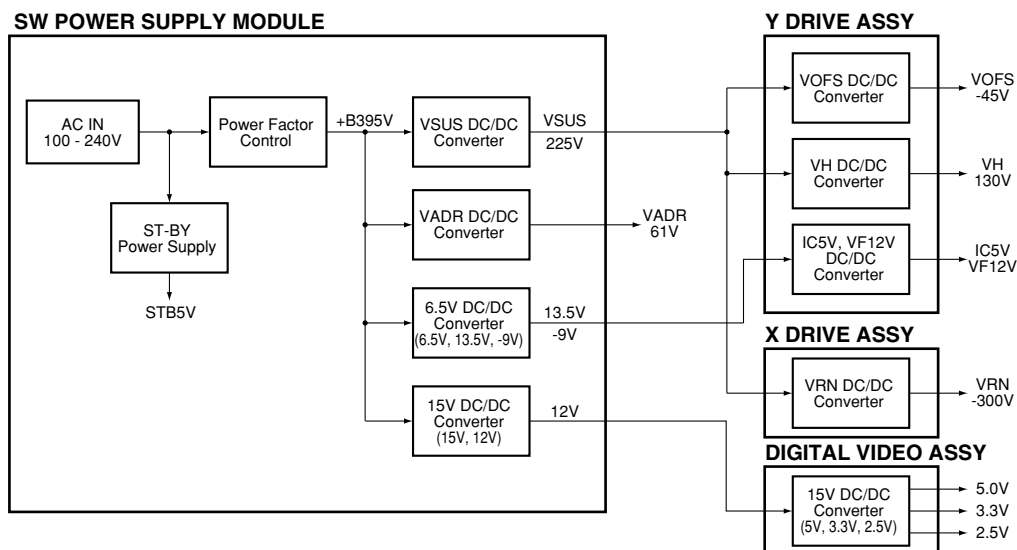
1 When the internal protection circuit of SW POWER SUPPLY Module worked

2 When a microcomputer was not able to identify the PD point

↓

Being careful because the protection circuit of SW POWER SUPPLY Module cannot conclude that worked.

● Block diagram for Power supply section



● Supplementary information

1. Power on/off switch for the large-signal system (SW102)

Function: Only the power for the small-signal system (15V, 12V, 6.5V, 13.5V, and -9V) is on, and the power for the large-signal system (VSUS, VADR) is off.

Usage: Use when only an operational check for the small-signal system is required.

Supplementary information:

When this switch is to be used, the wires of pin 5 (DIG, ADR, and PD) of the P2 connector of the power-supply module should be disconnected to prevent the PD circuit from operating. To turn the power of the large-signal system off without using this switch, operation from an external PC through RS-232C commands "DRF" is basically required. In this case, the above procedure is not required, as the PD circuit is muted by software.

Method of power supply ON in the large signal system OFF state with RS-232C command

- ① Confirm that this unit is the standby state.
 - ② Transmit RS-232C command "DRF."
 - ③ Turn the power supply ON by remote control unit, side key or command "PON."
- * When turn the power supply OFF once, return to setting of large signal system ON.
When turn the power supply ON in the large signal system OFF, transmit "DRF" command each time.

2. 200V AC power-down switch (SW101)

Function: While 200V AC voltage is applied, operation of the PD circuit is turned on and off (ON when the switch is set to 100V AC, and OFF when the switch is set to 200V AC).

Setting: For the PU model only, the switch is set to 100V, and for other models, it is set to 200V.

3. Temperature compensation of the VOFS voltage for the drive system

Function: Control the power supply voltage mentioned above according to temperature. (Temperature compensation works so that the voltage is lowered on the lower-temperature side, and is raised on the higher-temperature side.)

Purpose: To improve the yield by compensating the temperature characteristics of the panel.

Supplementary information:

For this model, temperature compensation is performed only for the VOFS voltage, and not for the VSUS voltage, and it is controlled by software.

4. When a fuse blows

- If a fuse blows, never turn the power on again only after replacing the fuse. (In most cases, the fuse itself did not have any problem. So as long as factors of overcurrent have not been removed, chances of destruction increase every time the power is turned on. In the worst case, about a dozen parts may be destroyed.)
- Principally, the whole power-supply module must be replaced.

5. Voltage adjustment of the panel drive

As this model employs the electronic VR system for the VSUS and VOFS voltages, and as the voltage-adjustment data are stored in the DIGITAL assembly, voltage adjustment of the panel drive is not necessary when the power-supply modules are changed. (For VADR, VH, and VRN, adjustments with semifixed VR controls are necessary.)

For this model, as the power-supply block has been developed and designed by an outside vendor, at the point you know which module is a cause of failure (through diagnosis described elsewhere in this manual), change the corresponding modules, and do not diagnose or repair the module.

Similarly, the switches and the semifixed VRs inside the power-supply module must not be adjusted without a special reason.

7.1.3 DISASSEMBLY

About detect switch

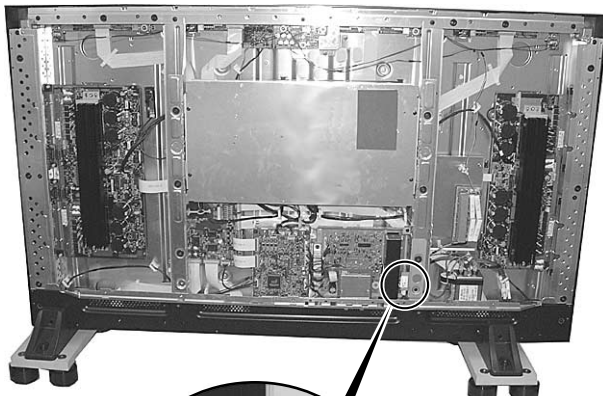
This unit adopt the "Rear Case opened ! detection" system. Please work in service as follows by all means.

● Outline and caution

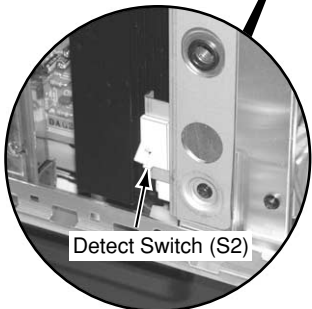
Perform video transmission from the media receiver to the plasma display with digital signal in the PDP-503HD series. Therefore adopt contents protection by HDCP for copyright protection.

Moreover establish the detect switch which is never turned on the power when "a rear case of plasma display was opened carelessly".

Detect switch does not detect at the power supply OFF and the remote control unit wait state. Please stick this detect switch with tape before turning on the power in inside diagnoses of the plasma display. And please remove it not to forget the tape which stuck after the repair.



● Rear View



Detect Switch (S2)

● When detect switch has worked by any chance

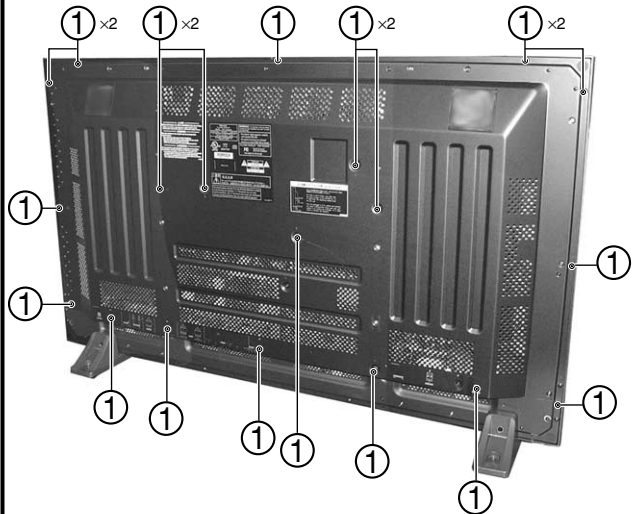
When detect switch works, LED of red blinks in succession by a 300msec period.

Press keys in order of "MENU" key, "ENTER" key and "POWER" key with the remote control unit after sticking the detect switch with tape or close the rear case beforehand. This unit activates and it becomes the service factory mode screen. Afterwards, turn off the power with the remote control unit.

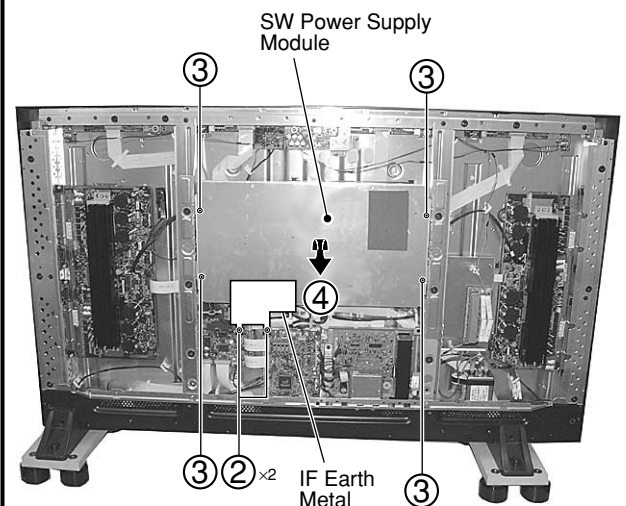
Perform the normal operation afterward.

SW Power Supply Module

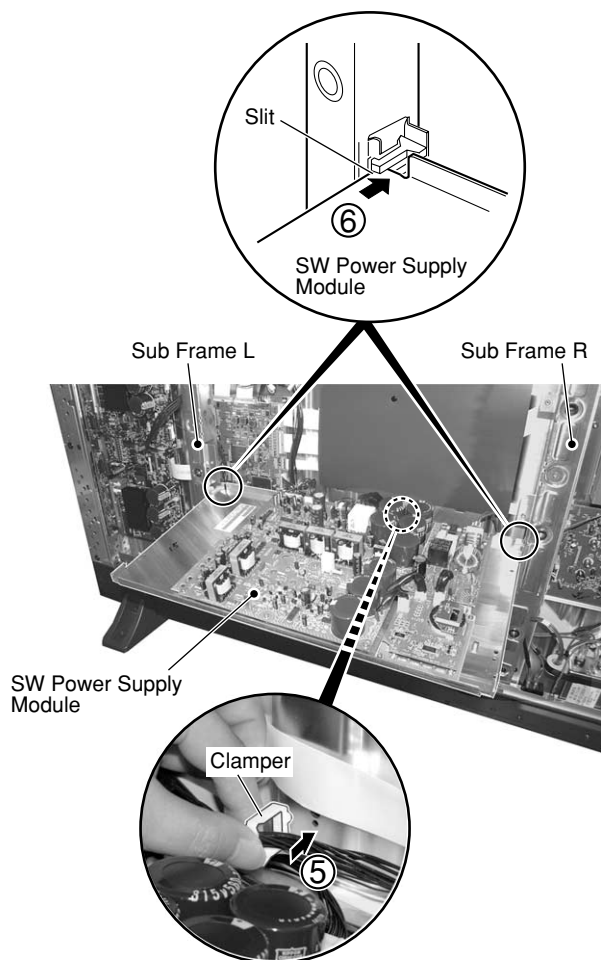
- ① Remove the Rear Case (50P).(Screws × 19)



- ② Remove the IF Earth Metal.(Screws × 2)
③ Remove four screws.
④ Remove the SW Power Supply Module.



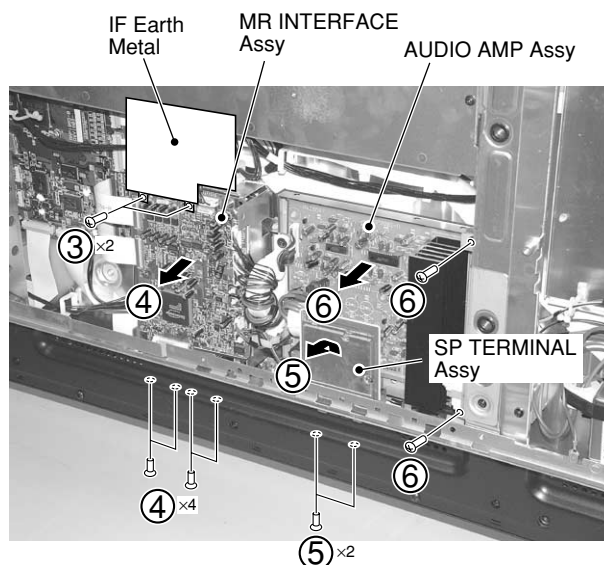
- ⑤ Insert it and reduce the Clamper.
- ⑥ Insert the SW Power Supply Module into the slit of Sub Frame L and R.



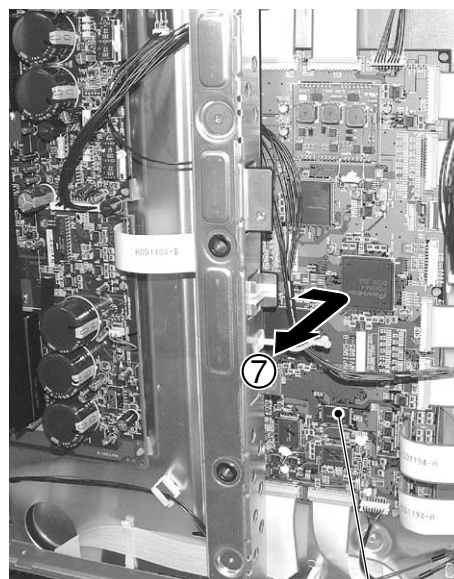
Diagnosis

MR INTERFACE, AUDIO AMP SP TERMINAL and DIGITAL VIDEO Assys

- ① Remove the Rear Case (50P). (Screws × 19)
- ② Remove the SW Power Supply Module.
(Connector, Screws × 4)
- ③ Remove the IF Earth Metal (Screws × 2)
- ④ Remove the MR INTERFACE Assy (Connector, Screws × 4)
- ⑤ Remove the SP TERMINAL Assy (Connector, Screws × 2)
- ⑥ Remove the AUDIO AMP Assy (Connector, Screws × 2)

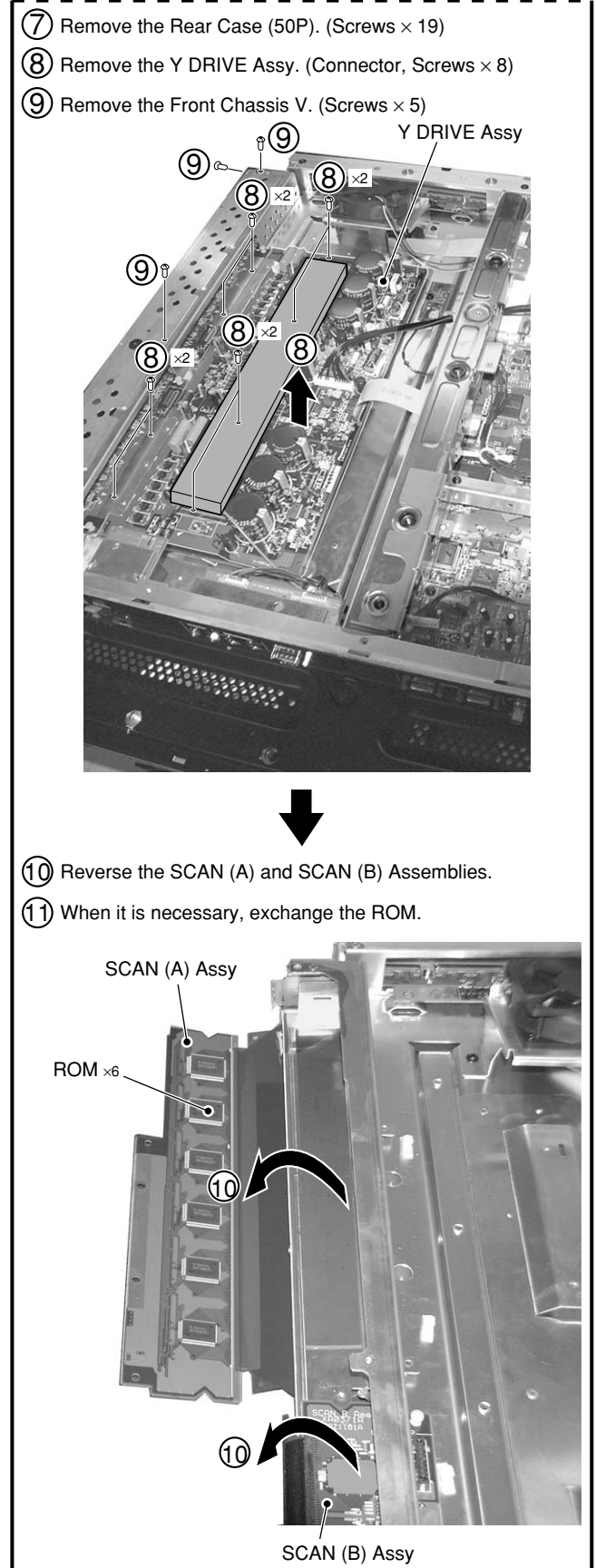
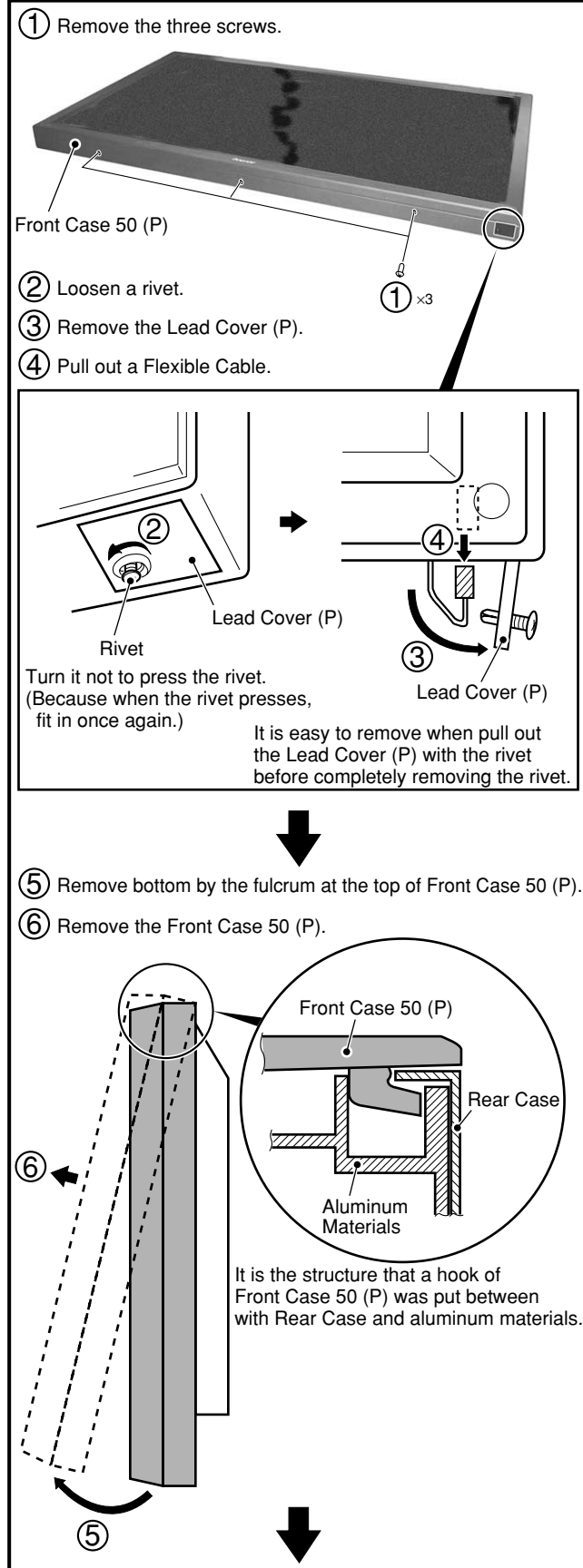


- ⑦ Remove the DIGITAL VIDEO Assy
(Connector, Circuit Board Spacer × 6)



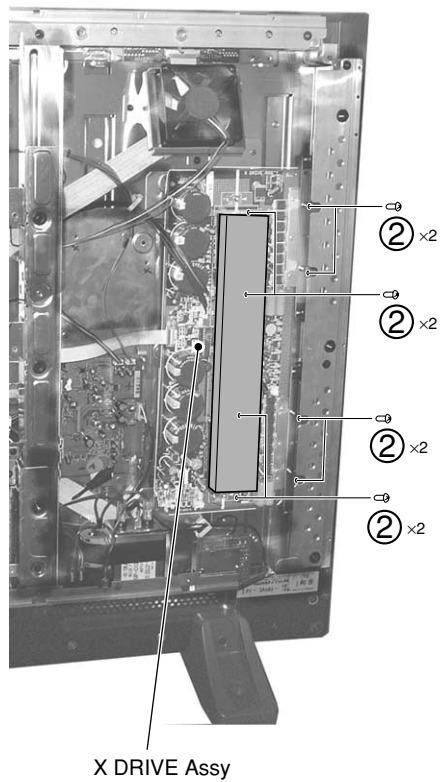
DIGITAL VIDEO Assy

Y DRIVE, SCAN (A), (B) Assy



X DRIVE Assy

- ① Remove the Rear Case (50P). (Screws × 19)
- ② Remove the X DRIVE Assy. (Connector, Screws × 8)



7.2 IC INFORMATION

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

•List of IC

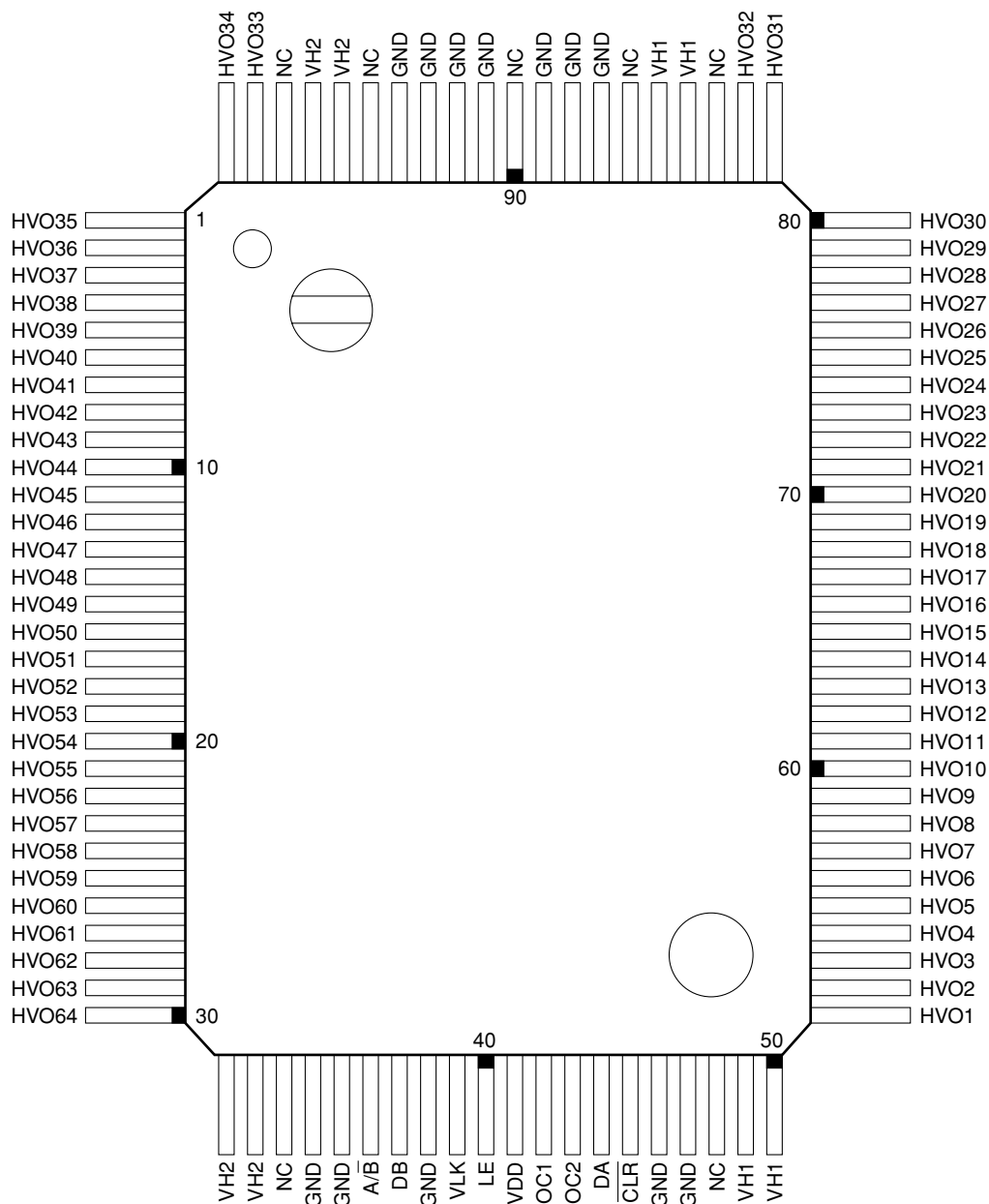
SN755860PJ, HD64F2328VF, PE1013B, M30624FGAFP, PD6358A, PST9246N, FS781BZB, STK795-460

■ SN755860PJ (SCAN B ASSY : IC6201 - IC6206)

SN755860PJ (SCAN A ASSY : IC6001 - IC6006)

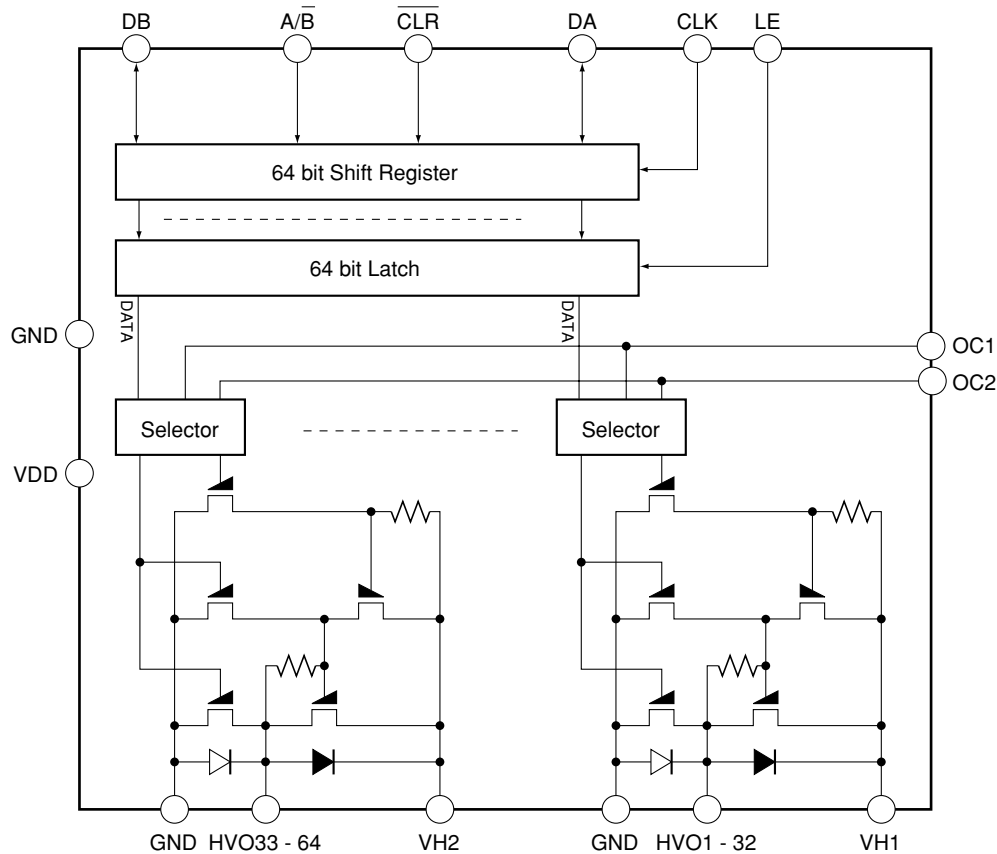
• Scan IC

• Pin Assignment (Top view)



PDP-503PE, PDP-503PU

● Block Diagram



● Pin Function

Name	Pin No.	I/O	Num.	Function
CLK	39	I	1	Shift clock (start edge partial response)
DA	44	I/O	1	The serial data input of shifting register
DB	37	I/O	1	The serial data output of shifting register
LE	40	I	1	It output data done a latch of by "L" level
A/B	36	I	1	A shift directional control signal of shift register
CLR	45	I	1	It do data of shift register with "L" by "L" level
OC1	42	I	1	An output control terminal of HVO
OC2	43	I	1	An output control terminal of HVO
HVO	1-30, 51-82, 99, 100	O	64	High voltage drive output (HVO1 - HVO64)
VDD	41	—	1	Logic power supply
GND	34, 35, 38, 46, 47, 87-89, 91-94	—	12	Standard potential. This is common to HVO1 - HVO64.
VH1	84, 85, 49, 50	—	4	The high potential circuit power supply which is common to HVO1 - HVO32
VH2	31, 32, 96, 97	—	4	The high potential circuit power supply which is common to HVO33 - HVO64
NC	33, 48, 95, 83, 86, 90, 98	—	7	It is the insulation electrically

HD64F2328VF (DIGITAL VIDEO ASSY : IC1101)

• Panel Microcomputer

• Pin Function

No.	Pin Name	Function
1	CS_23	PE5064 (IC1703) control output
2	NC	NC Terminal
3	VSS	GND
4	VSS	GND
5	VCC	3.3V power supply
6	UA0	Address bus
7	UA1	Address bus
8	UA2	Address bus
9	UA3	Address bus
10	VSS	GND
11	UA4	Address bus
12	UA5	Address bus
13	UA6	Address bus
14	UA7	Address bus
15	UA8	Address bus
16	UA9	Address bus
17	UA10	Address bus
18	UA11	Address bus
19	VSS	GND
20	UA12	Address bus
21	UA13	Address bus
22	UA14	Address bus
23	UA15	Address bus
24	UA16	Address bus
25	UA17	Address bus
26	UA18	Address bus
27	UA19	Address bus
28	VSS	GND
29	UA20	Address bus
30	PA5	NC terminal
31	PA6	NC terminal
32	PA7	NC terminal
33	CE_PN	Enables / for panel microcomputer
34	CE_PN	Enables / for panel microcomputer
35	VSS	GND
36	VSS	GND
37	APLP	The APL value acquisition trigger signal input
38	VD_31	The V signal input from IC1401 (PD6358)
39	VCC	3.3V power supply
40	UD0	Data bus
41	UD1	Data bus
42	UD2	Data bus
43	UD3	Data bus
44	VSS	GND
45	UD4	Data bus
46	UD5	Data bus
47	UD6	Data bus
48	UD7	Data bus
49	UD8	Data bus
50	UD9	Data bus

PDP-503PE, PDP-503PU

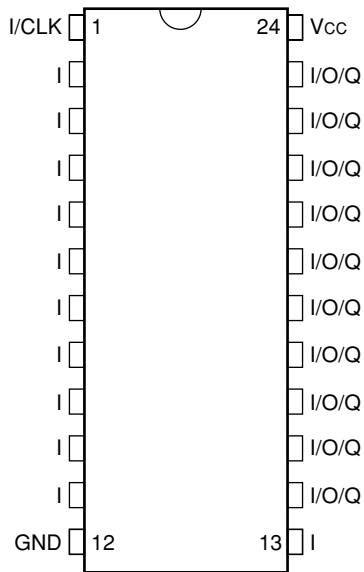
No.	Pin Name	Function
51	UD10	Data bus
52	UD11	Data bus
53	VSS	GND
54	UD12	Data bus
55	UD13	Data bus
56	UD14	Data bus
57	UD15	Data bus
58	VCC	3.3V power supply
59	D_TXD	Communication with IC1207 (module microcomputer)
60	EXT_TXD	Communication with the outside (program notes)
61	D_RXD	Communication with IC1207 (module microcomputer)
62	EXT_RXD	Communication with the outside (program notes)
63	D_CLK	Communication with IC1207 (module microcomputer)
64	P60	NC terminal
65	VSS	GND
66	CS_FLASH	A flash memory control terminal
67	VSS	GND
68	VSS	GND
69	P61	NC terminal
70	UDREQ	IC1703 (PE5064) control terminal
71	P63	NC terminal
72	WE_FLASH	A flash memory note control signal (unused)
73	BUSY	The command receipt of a message lye Norwich output
74	REQ_PU	A communication demand to a module microcomputer
75	SEL23B	IC1703 (PE5064) control terminal
76	CLRB	IC1703 (PE5064) control terminal
77	FR_SEL	The free run select signal output
78	RST31B	The reset output to IC1301, IC1401 (PD6358)
79	RST23B	The reset output to IC1703 (PE5064)
80	FWE	Microcomputer program note control signal
81	RESET	Reset input
82	NMI	The at the rate of tang input (unused)
83	STBY	The hardware standby input (unused)
84	VCC	3.3V power supply
85	XTAL	A clock oscillation child connection terminal
86	EXTAL	A clock oscillation child connection terminal
87	VSS	GND
88	PF7	NC terminal
89	VCC	3.3V power supply
90	PF6	NC terminal
91	RDB	A read control terminal from an outside slave device
92	HWRB	A wright control terminal to an outside slave device
93	PF3	NC terminal
94	PF2	NC terminal
95	PF1	NC terminal
96	PF0	NC terminal
97	P50	NC terminal
98	P51	NC terminal
99	VSS	GND
100	VSS	GND

No.	Pin Name	Function
101	P52	NC terminal
102	P53	NC terminal
103	AVCC	3.3V power supply
104	VREF	A/D, D/A reference voltage input (unused)
105	STOPB	The drive control input from IC1703 (PE5064)
106	P41	NC terminal
107	RYBY	The flash memory note ready input
108	ADR_K_EMG_L1	The emergency input from panel bottom address resonance block
109	ADR_K_EMG_U1	The emergency input from panel upper address resonance block
110	ADR_K_EMG_L2	The emergency input from panel bottom address resonance block (unused)
111	ADR_K_EMG_U2	The emergency input from panel upper address resonance block (unused)
112	P47	NC terminal
113	AVSS	GND
114	VSS	GND
115	MUTE_ADR	The panel mute signal input
116	MUTE_SUS	The X and Y drive mute signal output (unused)
117	P15	NC terminal
118	HD	The HD signal input from outside Assy (RGB Assy etc.)
119	P13	NC terminal
120	P12	NC terminal
121	PC_VIDEO	The PC/Video identification output
122	VD	The HD signal input from outside Assy (RGB Assy etc.)
123	MD0	The microcomputer mode of operation select signal input
124	MD1	The microcomputer mode of operation select signal input
125	MD2	The microcomputer mode of operation select signal input
126	PG0	NC terminal
127	CS_31Y	IC1301, IC1401 (PD6358) control signal
128	CS_31X	IC1301, IC1401 (PD6358) control signal

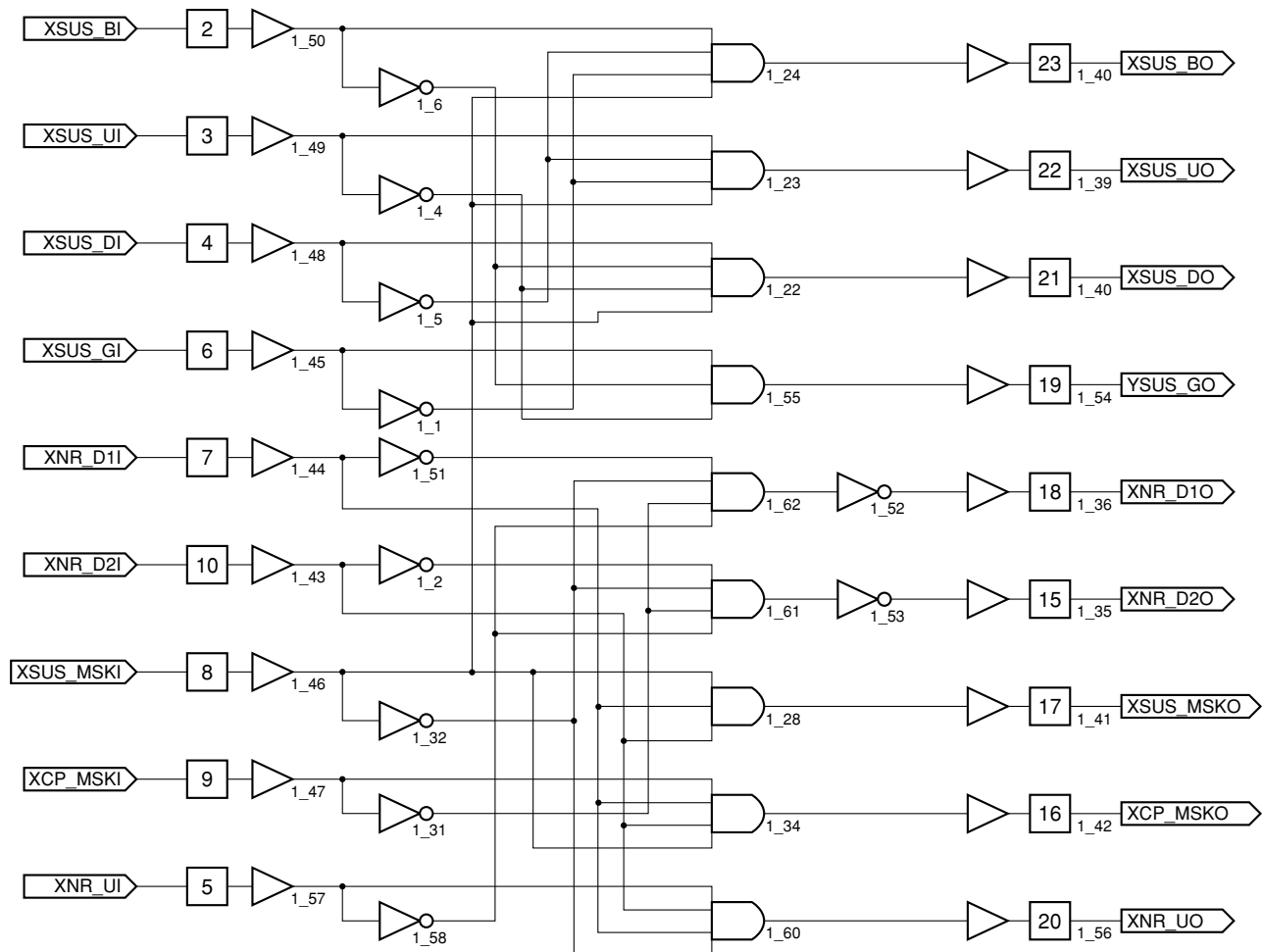
■ PE1013B (X DRIVE ASSY : IC3003)

• Drive Protect PLD

• Pin Assignment (Top View)

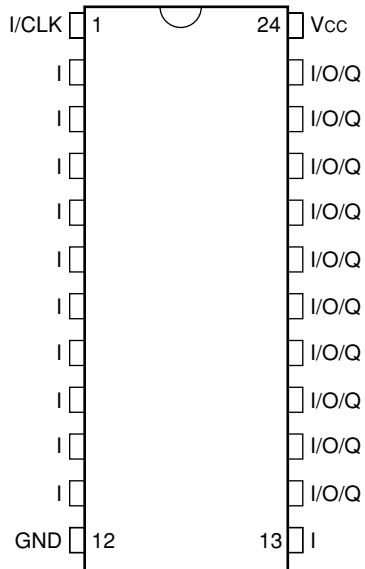


• Block Diagram

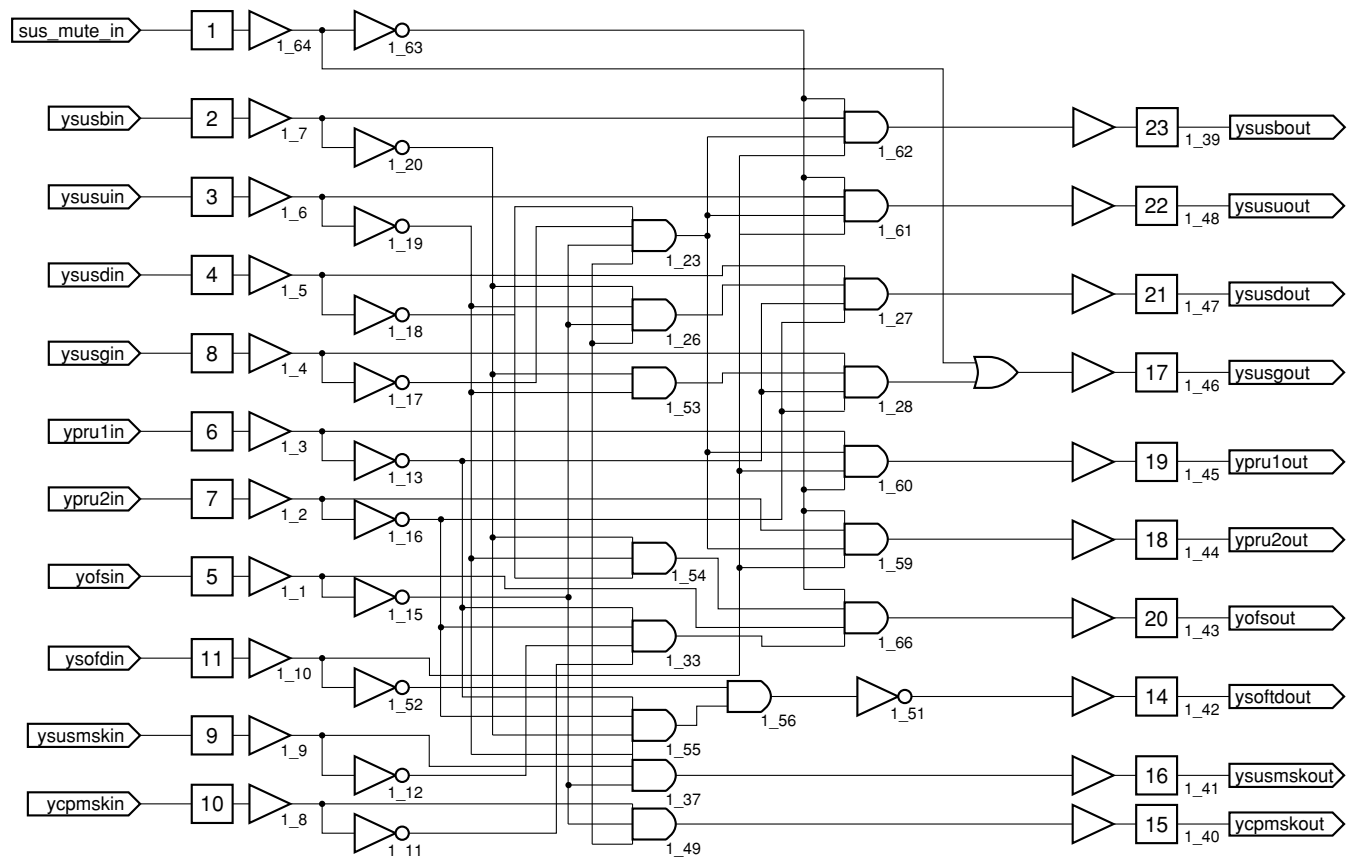


■ PE1013B (Y DRIVE ASSY : IC2006)

- Drive Protect PLD
- Pin Assignment (Top View)



• Block Diagram



PDP-503PE, PDP-503PU

■ M30624FGAFP (DIGITAL VIDEO ASSY : IC1207)

• Module Microcomputer

• Pin Function

No.	Pin Name	Function
1	TXD	Serial 3 line data output for communication with a panel microcomputer
2	CLK	Serial 3 line clock for communication with a panel microcomputer
3	NC	NC terminal
4	NC	NC terminal
5	NC	NC terminal
6	NC	NC terminal
7	NC	NC terminal
8	BYTE	The external data bus width reshuffling input (I am unused and connect GND)
9	CNVSS	A power supply for program note (a note, 5V, usually, pull-down
10	XCIN	NC terminal
11	XCOUT	NC terminal
12	RESET	A reset input terminal
13	XOUT	Clock output terminal
14	VSS	GND
15	XIN	Clock input terminal
16	VCC	5V standby power
17	NMI	Because a NMI interruption terminal is unused, It handle pull up.
18	REM	The SR signal input
19	REQ_PU	A communication demand from a panel microcomputer (the pulse meter acquisition)
20	/SW_TRG	Main switch OFF / ON search
21	NC	NC terminal
22	NC	NC terminal
23	NC	NC terminal
24	AC_OFF	AC power OFF search and power supply ASSY differentiation.
25	PD_TRIGGER	Power down search
26	NC	NC terminal
27	NC	NC terminal
28	NC	NC terminal
29	SCL	EEPROM, IIC communication with power supply ASSY
30	SDA	EEPROM, IIC communication with power supply ASSY
31	TXD1	Communication with the outside (a program note)
32	RXD1	Communication with the outside (a program note)
33	CLK1	Communication with the outside (a program note)
34	BUSY1	Communication with the outside (a program note)
35	TXD0	Communication with outside ASSY (microcomputers main in RGB ASSY, etc)
36	RXD0	Communication with outside ASSY (microcomputers main in RGB ASSY, etc)
37	NC	NC terminal
38	REQ_MD/A_MUTE	232C communication demand (a request to a main microcomputer) / audio system mute
39	NC	NC terminal
40	NC	NC terminal
41	EPM	The EPM input for program note (L fixation)
42	NC	NC terminal
43	PU_CE	Enables/ for panel microcomputer
44	NC	NC terminal
45	MOD_SW/A_NG	The model of machines distinction input / audio system NG input
46	CE	The CE input for program note (H fixation)
47	DITHER/SW_STC	Power supply search of a dither setting / media receiver for module
48	NC	NC terminal
49	/SW_STP	Power supply search of a panel
50	NC	NC terminal

No.	Pin Name	Function
51	NC	NC terminal
52	RELAY	The output for power supply ON / OFF change
53	POWER/MSTATE	Input / SII861 master information for power supply ON / OFF change
54	NC	NC terminal
55	WE_PN	Buffer state control for panel microcomputer note
56	MD0	The panel microcomputer mode of operation change output
57	MD2	The panel microcomputer mode of operation change output
58	FWE	The panel microcomputer program note control signal output
59	RST_PU	The panel microcomputer reset output
60	PN_MUTE	The panel mute input
61	NC	NC terminal
62	VCC	5V standby power
63	NC	NC terminal
64	VSS	GND
65	NC	NC terminal
66	NC	NC terminal
67	/A_SCL	IIC clock for audio system
68	/A_SDA	IIC data for audio system
69	APD_MUTE	A mute signal of address series
70	ADR_K_PD	The address oscillatory system PD input
71	ADR_PD	The address series PD input
72	DCC_PD	The power supply system PD input
73	NC	NC terminal
74	NC	NC terminal
75	RST2	Panel microcomputer reset search
76	NC	NC terminal
77	/DDC_SCL	IIC communication with a media receiver
78	/DDC_SDA	IIC communication with a media receiver
79	NC	NC terminal
80	NC	NC terminal
81	DEW_DET	The dew condensation sensor input
82	NC	NC terminal
83	NC	NC terminal
84	NC	NC terminal
85	NC	NC terminal
86	LED_G	Green LED lighting (LED on interface ASSY in a panel module)
87	LED_R	Red LED lighting (LED on interface ASSY in a panel module)
88	NC	NC terminal
89	BUSY	Communication permission / inhibiting signal from a panel microcomputer
90	NC	NC terminal
91	NC	NC terminal
92	/F_KEY1	The front KEY input
93	MAX_PLS2/F_KEY2	The terminal / front KEY input for brightness setting mode of operation change
94	TEMP1	The A/D input for temperature sensor
95	MAX_PLS? /CCKM	Terminal / connection search for brightness setting mode of operation change
96	AVSS	GND for AD conversion
97	PM_ST	The A/D input for model of machines distinction
98	VREF	Reference voltage for AD conversion
99	AVCC	5V standby power for AD conversion
100	RXD	Serial 3 line data entry for communication with a panel microcomputer

■ PD6358A (DIGITAL VIDEO ASSY : IC1301)

• Picture Improved IC

● Pin Function

No.	Pin Name	Function
1	VSS	GND
2	TESTO6	Test output terminal (unused)
3	OSDCLK	The CLK input for OSD
4	TTST	Test input terminal (unused)
5	VDDI	2.5V power supply
6	OVDDE-01	3.3V power supply
7	AGO0	Address data output (G signal)
8	VDDI	2.5V power supply
9	AGO2	Address data output (G signal)
10	AGO3	Address data output (G signal)
11	AGO4	Address data output (G signal)
12	VDDI	2.5V power supply
13	ARO6	Address data output (R signal)
14	AGO7	Address data output (G signal)
15	VDDI	2.5V power supply
16	ARO9	Address data output (R signal)
17	ABO9	Address data output (B signal)
18	VDDI	2.5V power supply
19	ADRCLKO2	The address CLK output (for panel upper part)
20	ARO12	Address data output (R signal)
21	ARO13	Address data output (R signal)
22	AGO14	Address data output (G signal)
23	AGO15	Address data output (G signal)
24	ARO16	Address data output (R signal)
25	ARO17	Address data output (R signal)
26	VSS	GND
27	ABO17	Address data output (B signal)
28	AGO17	Address data output (G signal)
29	AGO18	Address data output (G signal)
30	ABO19	Address data output (B signal)
31	UDAT15	Microcomputer data bus
32	UDAT12	Microcomputer data bus
33	UDAT9	Microcomputer data bus
34	UDAT5	Microcomputer data bus
35	OVDDE-06	3.3V power supply
36	APLP	APL value output trigger signal
37	OVDDE-08	3.3V power supply
38	CS5BI	The chip select input
39	CS4BI	The chip select input
40	UADRI13	Microcomputer address bus
41	UADRI9	Microcomputer address bus
42	UADRI6	Microcomputer address bus
43	UADRI2	Microcomputer address bus
44	UADRI1	Microcomputer address bus
45	TESTI2	Test input terminal (unused)
46	BIT0	The subfield No output (the 0 bit)
47	OVDDE-11	3.3V power supply
48	TESTO4	Test output terminal (unused)
49	ARO39	Address data output (G signal)
50	AGO38	Address data output (G signal)

No.	Pin Name	Function
51	VSS	GND
52	ABO37	Address data output (B signal)
53	ABO36	Address data output (B signal)
54	ARO36	Address data output (R signal)
55	ABO34	Address data output (B signal)
56	ADRCLKO4	The address CLK output (for panel bottom part)
57	AGO33	Address data output (G signal)
58	AGO32	Address data output (G signal)
59	AGO31	Address data output (G signal)
60	AGO30	Address data output (G signal)
61	AGO29	Address data output (G signal)
62	VDDI	2.5V power supply
63	ABO27	Address data output (B signal)
64	AGO26	Address data output (G signal)
65	VDDI	2.5V power supply
66	AGO24	Address data output (G signal)
67	VDDI	2.5V power supply
68	ABO22	Address data output (B signal)
69	VDDI	2.5V power supply
70	ARO21	Address data output (R signal)
71	ARO20	Address data output (R signal)
72	VDDI	2.5V power supply
73	OVDDE-14	3.3V power supply
74	TDI	The JTAG input
75	RBI9	The R picture B aspect signal input (the ninth bit)
76	VSS	GND
77	RBI8	The R picture B aspect signal input (the eighth bit)
78	RBI6	The R picture B aspect signal input (the sixth bit)
79	RBI4	The R picture B aspect signal input (the fourth bit)
80	OVSS-09	GND
81	RSTB	Reset input
82	GBI8	The G picture B aspect signal input (the eighth bit)
83	OVDDE-18	3.3V power supply
84	GBI5	The G picture B aspect signal input (the fifth bit)
85	GBI2	The G picture B aspect signal input (the second bit)
86	DEI	DE signal input
87	BBI6	The B picture B aspect signal input (the sixth bit)
88	BBI3	The B picture B aspect signal input (the third bit)
89	VDI	VD signal input
90	HDI	HD signal input
91	RAI6	The R picture A aspect signal input (the sixth bit)
92	RAI2	The R picture A aspect signal input (the second bit)
93	TESTI0	Test input terminal (unused)
94	OVSS-11	GND
95	GAI7	The G picture A aspect signal input (the seventh bit)
96	GAI3	The G picture A aspect signal input (the third bit)
97	GAI0	The G picture A aspect signal input (the 0 bit)
98	BAI6	The B picture A aspect signal input (the sixth bit)
99	BAI3	The B picture A aspect signal input (the third bit)
100	BAI0	The B picture A aspect signal input (the 0 bit)

PDP-503PE, PDP-503PU

No.	Pin Name	Function
101	TESTO7	Test output terminal (unused)
102	TESTO5	Test output terminal (unused)
103	OSDH	OSDH input
104	BLK	OSDBLK input
105	OSDB	OSDB signal input
106	NC	NC terminal
107	ARO1	Address data output (R signal)
108	ARO2	Address data output (R signal)
109	ARO3	Address data output (R signal)
110	ARO4	Address data output (R signal)
111	ARO5	Address data output (R signal)
112	ABO5	Address data output (B signal)
113	ARO7	Address data output (R signal)
114	ARO8	Address data output (R signal)
115	ABO8	Address data output (B signal)
116	AGO9	Address data output (G signal)
117	AGO10	Address data output (G signal)
118	ADRCLKO1	Address CLK output (for panel upper part)
119	ABO11	Address data output (B signal)
120	ABO12	Address data output (B signal)
121	ARO14	Address data output (R signal)
122	ARO15	Address data output (R signal)
123	ABO15	Address data output (B signal)
124	ABO16	Address data output (B signal)
125	AGO16	Address data output (G signal)
126	ARO18	Address data output (R signal)
127	AGO19	Address data output (G signal)
128	OVDDE-05	3.3V power supply
129	UDAT13	Microcomputer data bus
130	UDAT10	Microcomputer data bus
131	UDAT6	Microcomputer data bus
132	UDAT3	Microcomputer data bus
133	UDAT0	Microcomputer data bus
134	OVDDE-07	3.3V power supply
135	LR	The panel LR select input
136	RDBI	Microcomputer read control terminal
137	CLKSEL	CLK select input
138	UADRI10	Microcomputer address bus
139	UADRI7	Microcomputer address bus
140	UADRI3	Microcomputer address bus
141	CYCLEB	Address data output control signal
142	BIT2	Subfield No. output (the second bit)
143	SFSTB	Address data output control signal
144	OVSS-05	GND
145	TESTO2	Test output terminal (unused)
146	ABO38	Address data output (B signal)
147	ARO38	Address data output (R signal)
148	ARO37	Address data output (R signal)
149	AGO36	Address data output (G signal)
150	ARO35	Address data output (R signal)

No.	Pin Name	Function
151	ADRCLKO3	The address CLK output (for panel bottom part)
152	ABO33	Address data output (B signal)
153	ABO32	Address data output (B signal)
154	VDDI	2.5V power supply
155	ABO30	Address data output (B signal)
156	VDDI	2.5V power supply
157	ABO28	Address data output (B signal)
158	ARO28	Address data output (R signal)
159	ABO26	Address data output (B signal)
160	ABO25	Address data output (B signal)
161	ABO24	Address data output (B signal)
162	ARO24	Address data output (R signal)
163	ARO23	Address data output (R signal)
164	ARO22	Address data output (R signal)
165	AGO21	Address data output (G signal)
166	AGO20	Address data output (G signal)
167	TDO	JTAG signal
168	TMS	JTAG signal
169	RBI7	The R picture B aspect signal input (the seventh bit)
170	TCK	JTAG signal
171	RBI5	The R picture B aspect signal input (the fifth bit)
172	RBI3	The R picture B aspect signal input (the third bit)
173	RBI1	The R picture B aspect signal input (the first bit)
174	OVDDE-16	3.3V power supply
175	GBI7	The G picture B aspect signal input (the seventh bit)
176	OVSS-10	GND
177	GBI4	The G picture B aspect signal input (the fourth bit)
178	GBI1	The G picture B aspect signal input (the first bit)
179	BBI9	The B picture B aspect signal input (the ninth bit)
180	BBI5	The B picture B aspect signal input (the fifth bit)
181	BBI2	The B picture B aspect signal input (the second bit)
182	RAI9	The R picture A aspect signal input (the ninth bit)
183	CLK3	CLK input terminal (unused)
184	RAI5	The R picture A aspect signal input (the fifth bit)
185	RAI1	The R picture A aspect signal input (the first bit)
186	TEST11	Test input terminal (unused)
187	GAI9	The G picture A aspect signal input (the ninth bit)
188	GAI6	The G picture A aspect signal input (the sixth bit)
189	GAI2	The G picture A aspect signal input (the second bit)
190	BAI9	The B picture A aspect signal input (the ninth bit)
191	BAI5	The B picture A aspect signal input (the fifth bit)
192	BAI2	The B picture A aspect signal input (the second bit)
193	BAI1	The B picture A aspect signal input (the first bit)
194	OVSS-01	GND
195	OVSS-02	GND
196	OSDG	OSDG signal input
197	ARO0	Address data output (R signal)
198	ABO0	Address data output (B signal)
199	ABO1	Address data output (B signal)
200	ABO2	Address data output (B signal)

PDP-503PE, PDP-503PU

No.	Pin Name	Function
201	ABO3	Address data output (B signal)
202	ABO4	Address data output (B signal)
203	OVDDE-02	3.3V power supply
204	ABO6	Address data output (B signal)
205	ABO7	Address data output (B signal)
206	VDDI	2.5V power supply
207	OVDDE-03	3.3V power supply
208	ARO10	Address data output (R signal)
209	ABO10	Address data output (B signal)
210	AGO11	Address data output (G signal)
211	AGO12	Address data output (G signal)
212	ABO13	Address data output (B signal)
213	ABO14	Address data output (B signal)
214	OVDDE-04	3.3V power supply
215	OVSS-03	GND
216	ARO19	Address data output (R signal)
217	TESTO1	Test output terminal (unused)
218	UDAT14	Microcomputer data bus
219	UDAT11	Microcomputer data bus
220	UDAT7	Microcomputer data bus
221	UDAT4	Microcomputer data bus
222	UDAT1	Microcomputer data bus
223	VDRD	V signal output
224	HWRBI	Microcomputer wright control terminal
225	UADRI14	Microcomputer address bus
226	OVDDE-09	3.3V power supply
227	UADRI11	Microcomputer address bus
228	UADRI8	Microcomputer address bus
229	UADRI4	Microcomputer address bus
230	BIT3	Subfield No. output (the third bit)
231	BIT1	Subfield No. output (the first bit)
232	OVDDE-10	3.3V power supply
233	TESTO3	Test output terminal (unused)
234	ABO39	Address data output (B signal)
235	AGO37	Address data output (G signal)
236	OVSS-06	GND
237	AGO35	Address data output (G signal)
238	ADRCLKO5	Address CLK output (for panel bottom part)
239	ARO34	Address data output (R signal)
240	ARO33	Address data output (R signal)
241	ABO31	Address data output (B signal)
242	ARO31	Address data output (R signal)
243	ABO29	Address data output (B signal)
244	ARO29	Address data output (R signal)
245	OVDDE-12	3.3V power supply
246	ARO27	Address data output (R signal)
247	ARO26	Address data output (R signal)
248	ARO25	Address data output (R signal)
249	OVDDE-13	3.3V power supply
250	AGO23	Address data output (G signal)

No.	Pin Name	Function
251	AGO22	Address data output (G signal)
252	VDDI	2.5V power supply
253	ABO20	Address data output (B signal)
254	OVSS-07	GND
255	OVDDE-15	3.3V power supply
256	OVSS-08	GND
257	RBI2	The R picture B aspect signal input (the second bit)
258	TRST	JTAG signal
259	GBI9	The G picture B aspect signal input (the ninth bit)
260	GBI6	The G picture B aspect signal input (the sixth bit)
261	OVDDE-17	3.3V power supply
262	GBI3	The G picture B aspect signal input (the third bit)
263	GBI0	The G picture B aspect signal input (the 0 bit)
264	BBI8	The B picture B aspect signal input (the eighth bit)
265	BBI4	The B picture B aspect signal input (the fourth bit)
266	BBI1	The B picture B aspect signal input (the first bit)
267	RAI8	The R picture A aspect signal input (the eighth bit)
268	OVDDE-19	3.3V power supply
269	RAI4	The R picture A aspect signal input (the fourth bit)
270	RAI0	The R picture A aspect signal input (the 0 bit)
271	FREERUN	The freerun control input
272	GAI8	The G picture A aspect signal input (the eighth bit)
273	GAI5	The G picture A aspect signal input (the fifth bit)
274	GAI1	The G picture A aspect signal input (the first bit)
275	BAI8	The B picture A aspect signal input (the eighth bit)
276	BAI4	The B picture A aspect signal input (the fourth bit)
277	VDDE	3.3V power supply
278	OSDV	OSDV input
279	VSS	GND
280	OSDR	OSDR signal input
281	VDDE	3.3V power supply
282	AGO1	Address data output (G signal)
283	VSS	GND
284	VDDI	2.5V power supply
285	VDDI	2.5V power supply
286	AGO5	Address data output (G signal)
287	AGO6	Address data output (G signal)
288	VDDI	2.5V power supply
289	AGO8	Address data output (G signal)
290	VSS	GND
291	ADRCLKO0	The address CLK output (for panel upper part)
292	VDDE	3.3V power supply
293	ARO11	Address data output (R signal)
294	VSS	GND
295	AGO13	Address data output (G signal)
296	VDDE	3.3V power supply
297	ABO18	Address data output (B signal)
298	VSS	GND
299	TESTO0	Test output terminal (unused)
300	VDDI	2.5V power supply

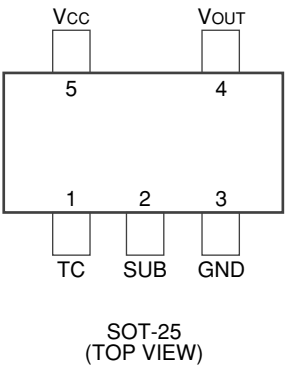
PDP-503PE, PDP-503PU

No.	Pin Name	Function
301	UDAT8	Microcomputer data bus
302	VSS	GND
303	UDAT2	Microcomputer data bus
304	VDDI	2.5V power supply
305	OVSS-04	GND
306	UADRI15	Microcomputer address bus
307	VDDI	2.5V power supply
308	UADRI12	Microcomputer address bus
309	VSS	GND
310	UADRI5	Microcomputer address bus
311	VDDI	2.5V power supply
312	NC	NC terminal
313	VSS	GND
314	AGO39	Address data output (G signal)
315	VDDE	3.3V power supply
316	ABO35	Address data output (B signal)
317	VSS	GND
318	AGO34	Address data output (G signal)
319	VDDE	3.3V power supply
320	ARO32	Address data output (R signal)
321	VSS	GND
322	ARO30	Address data output (R signal)
323	VDDI	2.5V power supply
324	AGO28	Address data output (G signal)
325	AGO27	Address data output (G signal)
326	NC	NC terminal
327	AGO25	Address data output (G signal)
328	VSS	GND
329	ABO23	Address data output (B signal)
330	VDDE	3.3V power supply
331	ABO21	Address data output (B signal)
332	VSS	GND
333	VPD	GND
334	VDDE	3.3V power supply
335	RBI0	The R picture B aspect signal input (the 0 bit)
336	VSS	GND
337	ACLK	CLK input (25MHz)
338	VDDI	2.5V power supply
339	CLK4	CLK input (50MHz)
340	VSS	GND
341	BBI7	The B picture B aspect signal input (the seventh bit)
342	VDDI	2.5V power supply
343	BBI0	The B picture B aspect signal input (the 0 bit)
344	RAI7	The R picture A aspect signal input (the seventh bit)
345	VDDI	2.5V power supply
346	RAI3	The R picture A aspect signal input (the third bit)
347	VSS	GND
348	CLK2	The image system CLK input
349	VDDI	2.5V power supply
350	GAI4	The G picture A aspect signal input (the fourth bit)
351	VSS	GND
352	BAI7	The B picture A aspect signal input (the seventh bit)

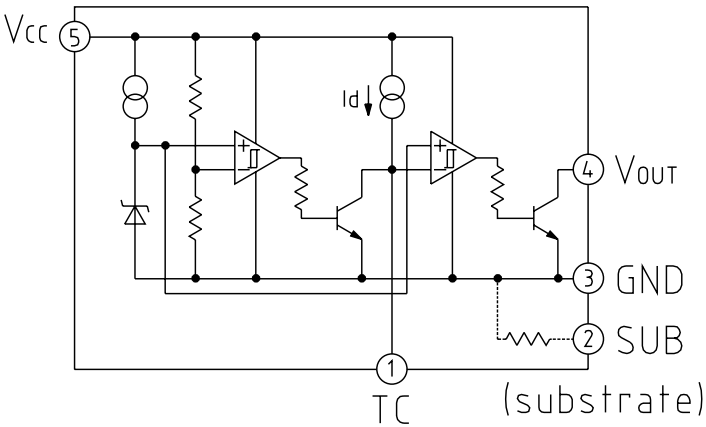
■ PST9246N (DIGITAL VIDEO ASSY : IC1208)

• Reset IC

• Pin Assignment (Top View)



• Block Diagram



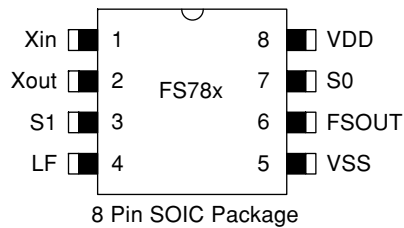
• Pin Function

Pin No.	Pin name	Functions
1	TC	TPLH control pin
2	SUB	Substate pin
3	GND	GND pin
4	Vout	Reset signal output pin
5	Vcc	Vcc pin / voltage detect pin

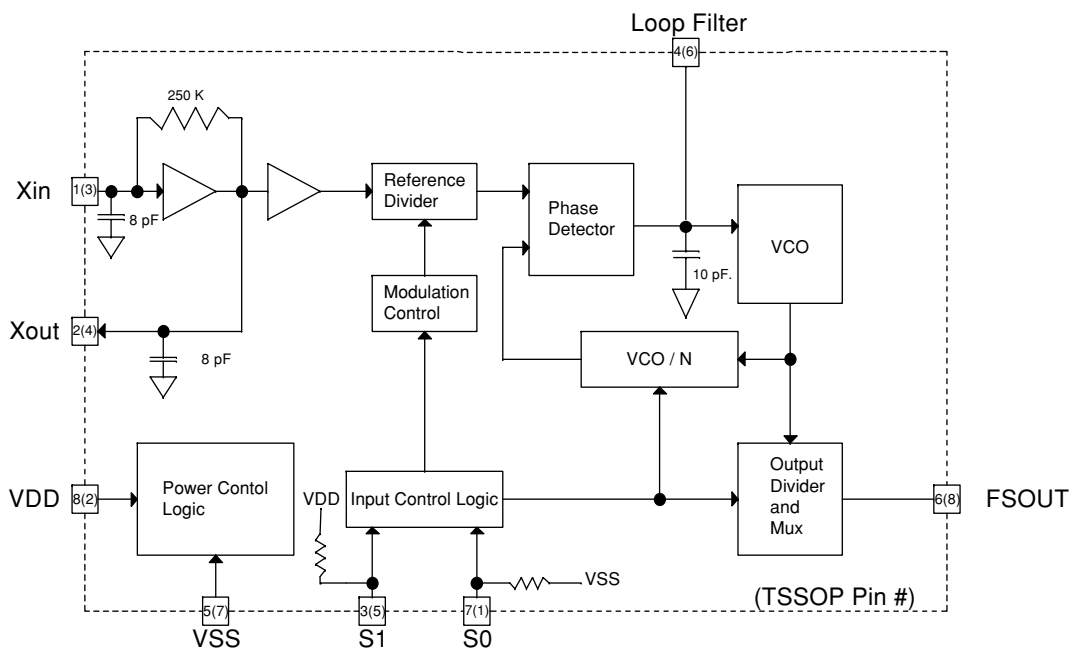
■ FS781BZB (DIGITAL VIDEO ASSY : IC1802)

- Low EMI Clock IC

• Pin Assignment (Top View)



• Block Diagram



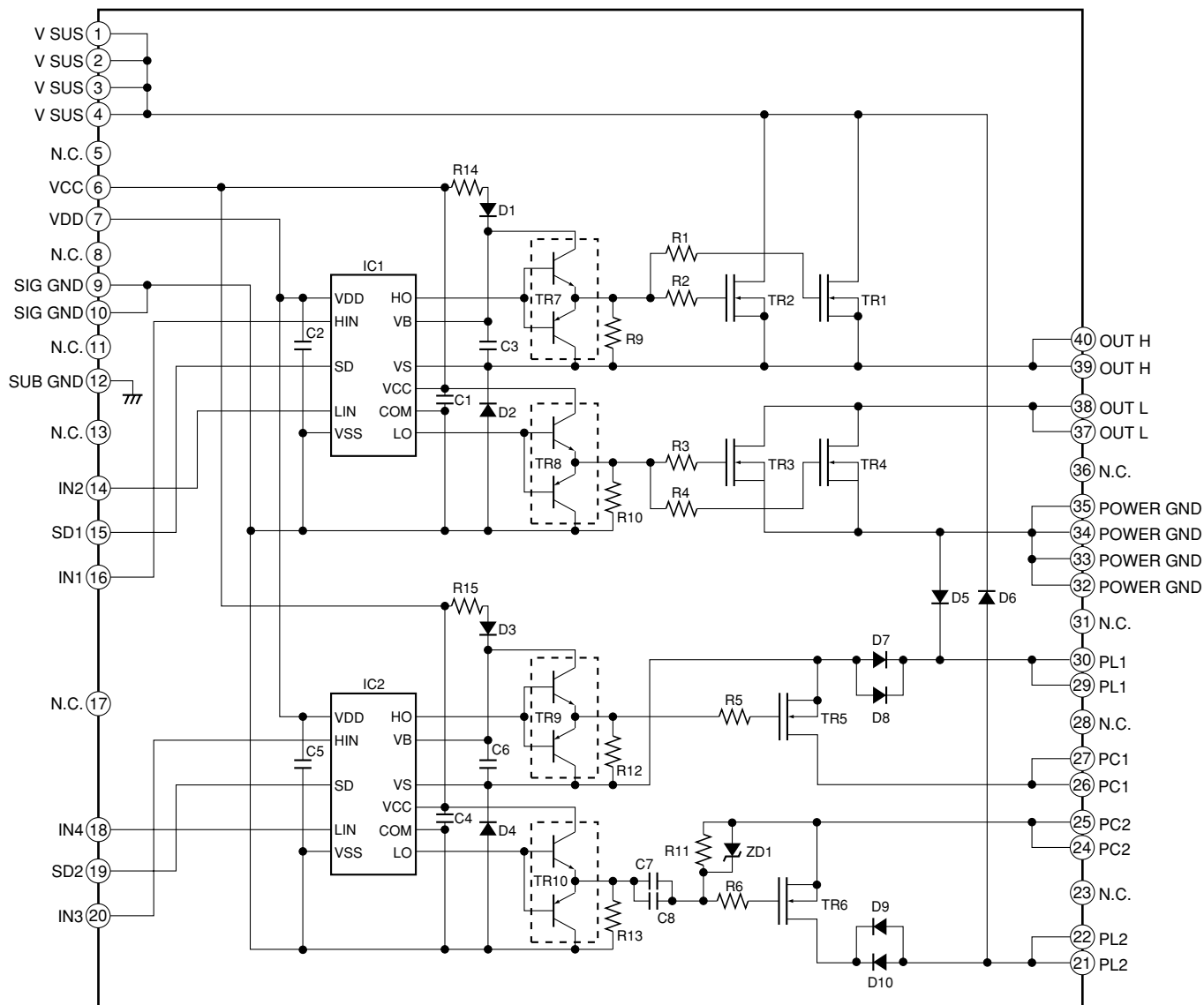
• Pin Function

No.	Pin Name	I/O	Type	Function
1/2	Xin/Xout	I/O	Analog	Pins form an on-chip reference oscillator when connected to terminals of an external parallel resonant crystal. Xin may be connected to TTL/CMOS external clock source. If Xin connected to external clock other than crystal, leave Xout (pin2) unconnected.
7/3	S0/S1	I	CMOS/TTL	Digital control inputs to select input frequency range and output frequency scaling. Refer to Tables 7 and 8 for selection. S0 has internal pulldown. S1 has internal pullup.
4	LF	I	Analog	Loop Filter. Single ended tri-state output of the phase detector. A two-pole passive loop filter is connected to Loop Filter (LF).
6	FSOUT	O	CMOS/TTL	Modulated Clock Frequency Output. The center frequency is the same as the input reference frequency for FS781. Input frequency is multiplied by 2X and 4X for FS782 and FS784 respectively.
8	VDD	P	Power	Positive Power Supply
5	VSS	P	Power	Power Supply Ground

■ STK795-460 (X DRIVE ASSY : IC3200, IC3201)
(Y DRIVE ASSY : IC2206, IC2214)

• PDP Pulse Module IC

● Block Diagram



8. PANEL FACILITIES

Plasma Display

